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Provincial page

Denis Croteau, son of Garson mine motorman. Ray Croteau, had the honor of being selected to spend five weeks as a page in the provincial legislature.

Mutz and Finlayson First Aid Competitions

The best

Thirteen teams representing the best first aid teams in the Ontario division competed for the right to represent their area in the R.D. Parker Shield competition.

Risto's house

Shebandowan mine employee, Risto Heiskanen, has designed and constructed a novel house that uses natural materials and the principles of passive solar heating.

Quest for gold

Mickey Prilisauer, son of Inco design engineer, Karl Prilisauer, finished sixth in the junior division of the Canadian Figure Skating championships. He's now practising 11 months of the year for a chance to compete in the world championships next year.



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Our cover

Our cover, shot by Sudbury photographer Dan Dionne, shows some of the personal protective equipment that is typically used by most employees in operations. It symbolizes the substantial improvements in safety performance that occurred at our company during 1981. For more on our safety performance see page four.

Rolly Landry Made good use of his training

One evening not long ago, Rolly Landry, an assistant operator at the Copper Cliff nickel refinery, returned home to find an electrical pole in his back yard ablaze. Without panicing, he ran upstairs to his apartment, called the fire department, grabbed a fire extinguisher and within a matter of minutes had the fire out.

For most people, a fire creates panic and uncertainty. But for Rolly, it was an event for which he has been well trained during his three years as a volunteer on the nickel refinery fire brigade.

As a volunteer, each member of Inco's many brigades is trained to deal with all types of fires, but special emphasis placed on those which may occur in their particular work area.

"What better people to fight a fire," says Rolly, "than those who work in the area. These people know the layout of their building, the types of gases being used and probably, the cause of the fire."

According to Rolly, the fire in his back yard was nothing spectacular. But it could have been if it was not given immediate attention. His training on the fire brigade has given him and his fellow fire fighters the confidence necessary to "meet a fire head on", no matter where it may occur.

"Before I joined the brigade, all I could do is call the fire department, or let it burn. Luckily, I never had to deal with one before."



Safety record Improves during 1981



For the fourth year in a row, matte processing had the best safety record for inco surface plants in the Ontario division. Lineman Altan Becks marks the occasion by changing the year on matter processing's safety sign.



The continuing strong support by the joint company union safety committees, such as this one at matte processing was one of the reasons for incols improved safety performance.

Significant improvements in safety performance were achieved during 1981. In an effort to understand how this happened, the Triangle interviewed Bill Collis, Inco's manager of safety and plant protection.

Triangle

There was a marked improvement in our 1981 safety performance compared to 1980. To what do you attribute this improvement?

Bill Collis

It was due primarily to the new safety training initiatives begun during the year at our mines and plants and, the continuing strong support by the joint union company safety committees and senior management.

T. Could you elaborate on this?

C. 1980 was a totally unacceptable year from a safety point of view. Something had to change. This caused all concerned to have a renewed dedication towards safety. Employees were asked to participate in safety workshops held in the latter part of 1980. They suggested that there should be a uniform safety recognition program. Each location recognized their safety performance with different awards or incentives, but employees indicated to us that each area should be consistent in this recognition. This led to the formation of the safety recognition program.

T. What else was done?

C. All Joint OSHE and ASHE committee members (approximately 400 employees) received a course in the basic guidelines on effective operation of safety and health committees. In addition all people in the mines area from the manager down were instructed in the Neil George Safety System. It was recognized that people at mines were working under a different set of circumstances than people working in surface plants. (The Neil George System was named after an inco supervisor in the mines who some 40 years ago developed a safety system which could be directly applied to the mining environment).

T. What goals did you set to accomplish this?

C. We wanted to operate without a fatal injury and second, to achieve reductions in injury frequency which would place us at or below the frequency levels of 1979

How did we do?

C. In 1981 we had no fatal accidents and our reported and medical injury frequency levels were below the 1979 levels. The disabling injury frequency did not reach the 1979 level but it was 17% below the 1980 level.

T. What steps are being taken to ensure that our safety performance will improve in 1982?

C. We are aiming to further reduce our lost time frequency by 20% compared to 1981. In the fall of 1981 every safety supervisor was trained in accident investigation and plans are underway to train all first-line supervisors. The Neil George Safety System will continue to be applied in every area of mining and milling and it will be modified to incorporate surface plants. In addition, all operating management and supervision in our smelting and refining, engineering and maintenance services. and administration sections will be trained in the Management Guide to Loss Control. We believe that these programs are effective safety tools. which will help us to attain our goals.

T. There are many ways to measure safety performance. What method does inco use?

C. Safety performance has traditionally been measured by lost time accident frequency. We have recently implemented the Five Star International Safety Rating System which is a method of measuring safety performance developed by the Industrial Accident Prevention Association. It allows us to measure the effectiveness of our safety programs as well as accident frequency and gives us a method of comparing ourselves to other industries.



Coleman mine had the best safety record of Ontario division mines during 1981 and a representative group of Coleman mine employees were presented with their trophy by Tom Parris, felt and Mit Jowsey (both recently retired).



This group, representing Copper Cliff mill, was congratulated by Tom Parris for having the best safety record of Ontario division mills in 1981.

A first-hand look at government

A few months ago Denis Croteau, the 12 year old son of Ray Croteau, a motorman at Garson mine, received some good news from the Office of the Speaker of the Ontario legislature. He learned that he had been chosen to spend five weeks in the provincial legislature as a page.

Interviewed shortly after the

announcement, Denis stated that he was very happy with the honor. The grade seven student at Ecole St. Augustin in Garson said he was looking forward to the duties of a page boy because he "thought it would be fun to learn how the government works."

Applicants to the page program



must have a minimum scholastic average of 80 per cent. They also must be in either grade seven or grade eight. A third criterion is that successful applicants must be able to secure their own accommodations during their stay in Toronto.

Part of the process involves the boy or girl filling out a portion of the application form with his or her principal filling in the rest.

Diane Algera of the Office of the Speaker explains that each of Ontario's 125 ridings, in rotation, has an opportunity to have one of their young constituents selected as a page. "Who gets selected really depends on who else has applied in the riding," she comments.

Denis has become the fourth individual to be accepted as a page from his riding of Sudbury East. There have been four from Sudbury and one from Nickel Belt.

On March 8 along with 21 other students, Denis began his stint as a messenger in the provincial parliament. During his stay in Toronto he will not only serve in the legislature but also will continue his studies under the auspices of tutors hired by the Office of the Speaker.

A typical day in the life of a page begins at 9 a.m. when the legislature is in session, that is Monday, Tuesday and Thursday.

For an hour pages deliver documents, papers and bills to members' offices or their desks in the chamber in preparation for the upcoming session.

Denis listens to the instructions of music tutor Altan Colfin This is followed by a half hour long physical education period. Between 10:30 a.m. and 12 noon half of the pages attend French class while the second group studies music. Denis, a guitarist, appreciates this opportunity to pursue this fine art. After 45 minutes the groups switch.

From noon to one o'clock the pages eat and change into their uniforms. They then sit down with Diane for half an hour to discuss what is going on in the legislature that day and some of the people they can expect to encounter. The pages finish preparations of the chamber for its 2 p.m. opening.

Throughout the four hour session the pages carry messages from one member of the legislature to another. One group of pages leaves the house at 3:30 for classes in English, mathematics and history.

On another day the second group takes in these classes. The pages have dinner between 6 and 8 p.m. Only a few stay for the evening sitting of the legislature.

Pages, Diane points out, are paid \$12 a day. They also receive \$1 a day to cover their transit costs between their home and Queen's Park. Those working evening sessions get an extra \$6 and a \$3 allowance for dinner.

The pages are treated to a number of special events such as dinner with the lieutenant-governor and photographic sessions with the Speaker of the House.

The experience is both an enjoyable and educational one for the pages as they learn the intricacies of the legislature and the everyday activities associated with living in a city the size of Toronto.

Anyone wishing to enquire about the pages program, on behalf of their children, should address their questions to Diane Algera, Office of the Speaker, Queen's Park, Toronto, Ontario. M7A 1A2.

Page boy Danis Croteau prepares to exercise his duties at Queen's Park in Toronto.





"Charbie" Remembers

Charbie remembers, as he points to the area in the open pit where he used to haul ore. In background is Frood no. 3 shaft.



Those were the good of days; members of the open pit truck crew posed next to their trucks for Charble.

His thoughts of the Frood mine area and its employees are fond and vivid, so much so that he has compiled a collection of photos (that he took) during his years there.

Gaston "Charbie" Charbonneau recently retired from his job as carpenter at Frood mine but before he left he supplied the Triangle with some photos and information about Frood in the early 1940s.

Charbie's years at Frood were spent as laborer, truck driver in the open pit, crane operator and dumpman at the crushing plant and garage mechanic. He went to Garson mine for a few years as a carpenter then returned to Frood in the same capacity to, as he

says, "hang up my skates."

His fondest memories are those when he was driving trucks in the open pit. "There was good harmony among the crews," Charbie says, "and you were able to work more on your own. You took your lunchpail with you in the cab of the truck and you could eat when you wanted to."

He sometimes made part of his lunch in his truck. "I would put an egg on the radiator of the truck before the truck was loaded with ore," he recalls, "and by the time the truck was loaded and I had driven it up the ramp to surface, the egg was cooked, a nice soft boiled egg."

Charbie admits that he used to play



Charbe drove trucks for nine years at the Frood Open Pit. In those days the pit had 33 trucks he says, each with a capacity of hauling 35 tons of ore.

small pranks on his fellow truck drivers. One day in cold weather after he had eaten a can of sardines. Charlie put the can on the cab heater of his friend's truck. "When my buddy got into the truck and turned the heater on, the can stunk up the truck something terrible," he chuckled.

There's one thing that Charbie will always remember about his years at Inco. "The company emphasized safety all the time. There was a safety sign on a wall near the old crushing plant and it said: 'Accidents don't happen, they are caused.' That made a lot of sense to me. And since then I've applied it to everything 1 do."

Thanks, Charbie, for the memories.

Firetrol 931 New use for old product



A water bomber douses a bush fire with Firetrol 931.



Now Firetrol 931 is used to fertilize grasses planted in the tailings area.

What was once used to slow down and kill forest fires is now being used by the agricultural department to enhance the growth of plant life in the tailings reclamation site behind Copper Cliff.

A fire retardent known as Firetrol 931 was recently cut out of the Ministry of Natural Resource's fire fighting program. That left the Ministry with a glut of the stuff on hand. The ministry offered it to a number of concerns, including Inco's agricultural department who is putting it to good use.

According to Rod Cleaver of the Regional Fire Centre, Firetrol 931 is a concentrate that is diluted with water for aerial application around forest fires. The exercise of having aircraft return to the Sudbury base to reload with the Firetrol mixture proved to be more expensive and time consuming than having aircraft dip into a handy lake close to the scene of the fire and wet down endangered forests by water bombing with straight water.

"We're out of the fire retardent business," Rod states. "We're going to go strictly to amphibious aircraft and water bombing."

The main component of Firetrol 931 is ammonium phosphate, a 10-34-0 fertilizer. Its high phosphate content makes it ideal for promoting root growth in plants, especially grasses. The agricultural department gladly accepted the 10,000 gallons of Firetrol 931 that it was offered. It is mixed and sprayed by a hydroseeder on the tailings area.

Inco's agricultural department is understandably elated about the fire retardent deal. Not only has it secured a fertilizer that will help in greening the tailings area but it has also put to good use something that was being discarded.

Inco Cup wraps up for another season

One of the closest races ever, highlighted this year's chase for individual honors in Inco Cup ski competition. The question of who would be the top girl and top boy among the over 80 competitors throughout northeastern Ontario was not decided until the final leg of the series held at Onaping on March 12.

Michele VandeKaa of North Bay and Nicole Walker of Larder Lake had established themselves as the two girls that could clinch the Inco Cup after the first three legs of the series.

After the first race at Kamiskotia Hill in Timmins on January 30 and 31, it looked like Sudbury's Marnie Pettit, daughter of Ron Pettit of mines engineering at Copper Cliff, was well on her way to retaining her Inco Cup crown. She won both the slalom and giant slalom events.

Marnie's chance for a seond consecutive championship was all but dashed when she caught a tip during a training run in Sault Ste. Marie and cracked a bone in her leg. It was in the Soo races at Searchmont Hill that Michelle Van de Kaa started her drive for the title by sweeping all three events, the slalom, the giant slalom and the downhill. Nicole Walker finished second in both the slalom and downhill and third in the giant slalom.

On her home turf at Nipissing Ridge at North Bay Michele placed second and third in the slalom and giant slalom. Nicole was second in the giant slalom and third in the slalom. The big winner at Nipissing Ridge was Jennifer Mealy of Sault who took the gold medal in both events.

Before the start of the slalom race at Onaping Ski Hill, Michele and Nicole were neck and neck for the individual ladies' title. An unfortunate fall by Nicole on her first run ended her quest for the championship and made Michele the new reigning queen of the Inco Cup. Jennifer Mealy finished an excellent season of skiing by winning the Onaping race. Cathy Richardson of North Bay was third.

The contest for the boys individual award was every bit as close. John Mealy of Sault Ste. Marie had posted a victory in the giant slalom in Timmins, and a second in the slalom and a third in the giant slalom in North Bay to grab a share in the points lead after the first three races. Peter Vassbotn of North Bay stayed in contention with a gold in the slalom and a silver in downhill at Sault Ste. Marie and a gold in the giant slalom in North Bay.

The issue was decided in an exciting race at Onaping that saw John Mealy slash down the slope to a win. John, still of juvenile age, becomes the youngest skier ever to win the individual Inco Cup award.

The Soo Ski Runners easily won the overall team award. The Adanac-Laurentian Ski Team from Sudbury placed second. In addition to Marnie's gold medal racing in Timmins, other Sudburians performed well during the Inco Cup series. Darren Foy, son of Gary Foy, area supervisor of industrial relations at Frood-Stobie and Garson, won a silver medal in the giant slalom in North Bay. Scott Pink, son of Ron Pink, general foreman at Garson mine, finished second in the giant slalom and third in the downhill in Sault Ste. Marie.



Elwood Woniberg, inco staff geologist, lines up the electronic finish lights during the loco cup races at Onaping



The inco Cup series would not enjoy the success that it does without the considerable work done by the volunteers such as Ron Pink, general foreman at Garson mine, pictured here carrying statom poles up the hit.





Rob Stke, son of Mary and Richard Silke, both Inco employees, displays his statom form during an Inco Cup race.

Shannon Wohlberg, daughter of Elwood Wohlberg, streaks down the slalom course at Onaping.



The individual champion for the boys section of the inco Cup is John Mealy of Sault Ste. Marie



The individual champion for the girls section of the inco Cup is Michele VandeKau of North Bay.



Frood-Stobie Complex Robert Recollet, Gordon Andrews (coach), Claude Trudel, Ron Gervais, Gordon Stewart (captain), Jack McGibbon

Mutz and Finlayson First Aid Competitions

13 teams of our best vie for right to compete in R.D. Parker



Creighton Mine

Paul Gushue, Paul Roy (coach), Moe Villeneuve, Joe Descoteau, Doug Cottin (captain), Kalevi Rintala



Copper Cliff Mines Stan Ojanpera, Robert Croteau (captain), Mike Brisson Walter Mariga, Len Boullon, Kurt Fuerniss (coach) was absent.



Garson Mine Marcel Labrosse. Paul Prudhomme (coach), Brian McNeit, Denis Arseneau, Ray Croteau (captain), Renald Trudeau



Central Maintenance Steve Ross. Donald Demore (coach). Conrad Potvin, Paul Moulaison, Gerry Regimball (captain), Thomas Burton



Central Mills Invin Thompson, Ted Wilson (coach). Pat O'Hearn, Chester MacLean, Terry Lawrence (captain), Denis Theriault



Port Colborne Nickel Refinery Roger Battista, Barney Santarella (coach), Italo Orfei, Lino DiPasguale, Al Buzzi, (captain), Frank Francescangeli





Matte Processing Debbie Akerman, Sue Morin (coach), William Domik, Murray Armstrong, Gerry Lavoie (captain), Ray Lariviere



Norm Quinn, Jim Kmit (coach), Roger Frappier,

Smelter Joseph Garrefa, Lucien Lafrance (coach), Zygmund Paluch, Frank Rocca, Joseph Maranchuk (captairi), Vince Stahibaum



I.O.R.P. Kevin Connelly, Gord Ettinger (coach), Gary Graham, Terry Sassevile, Don Benoit (captain), Harold Williamson

And the winners are:

Finlayson and Mutz Competitions

Scene One: Along a rural roadway an electrician works up on a hydro pole repairing a transformer when an automobile bursts into flames. The collision cracks the pole and causes a high voltage electric cable to break. The electrician is electrocuted and remains entagled in wires on the pole. The passenger in the automobile is thrown clear and suffers multiple injuries. The driver is stunned and remains in the automobile.

Scene Two: A car with two occupants is heading on a secondary highway toward an airport. As the car crosses a bridge on the highway near the runway, a small aircraft, apparently in difficulty, is headed towards the car. The aircraft rips the car's top off and crashes in the field near a river. On impact the plane bursts into flames. The pilot escapes.

Such were the accident situations present in the semi-final first aid competitions for the H.J. Mutz and D. Finlayson Trophies respectively.

On March 9, five mining teams in the Ontario Division applied their first aid knowledge in oral and practical examinations in their quest for the Mutz title. Eight surface plants in the Ontario Division did the same March 11 in their pursuit of the Finlayson honor.

And the winners are: H.J. Mutz — Levack mine; D. Finlayson Trophy — copper refinery. Congratulations to all teams!

At press time, the winners competed for the coveted R.D. Parker Shield. More on the Shield competition in next month's issue.



Levack Complex John Boden, Nick Schatalow (coach), Clem Belanger, Andre Lalonde, Clem Castonguay (captain), Danny Seguin



Copper Cliff Copper Refinery Lori Dupuis. Austin Burns (coach), Norm Assein. Bil Dane, Frank McKinnon (captain). Robert Fournier

ON TIME WITHIN BUDGET

On schedule. Within budget. That's how Marty Puro, superintendent of the Copper Cliff mill, describes the progress on the new pyrrhotite rejection circuit being installed in the existing mill complex.

Approved in October, 1980, the pyrrhotite rejection project makes extensive use of the existing grinding aisle, by removing obsolete ore storage bins and grinding mills, as well as part of the flotation section. Enough prime real estate was realized in this way to fully accommodate this modern grinding-flotation circuit.

Pyrrhotite is a sulphur rich iron mineral which occurs in combination with the copper and nickel minerals in the Sudbury area ores. When subjected to smelter processing it contributes to the formation of slag and sulphur dioxide emissions. The facilities now being installed will permit improved ore treatment so that increased quantities of pyrrhotite will be rejected at the Copper Cliff mill. This will minimize the quantity of pyrrhotite to be smelted and decrease associated sulphur dioxide emissions.

As a result of the company's sulphur containment practices, about 70 percent of the sulphur in the ore is now being contained. The new pyrrhotite rejection circuit has the potential to increase this to a level of about 77 percent.

Work on the \$14.5 million project is scheduled to be completed by October of this year. Marty expects the circuit to be fully de-bugged and operational by year-end.



Engineering and construction are proceeding on schedule at the Copper Cliff mill for the separation and rejection of additional pyrrhotte, a sulphur rich and nickel-poor material. The installation of four regrind mills, designed to process increased pyrrhottle feed, started last month.



The House That Risto Built

Risto Heiskanen's home is his castle. If his reckonings are correct, his unique, energy efficient home should last as long as a castle.

A driller at Shebandowan, Risto, 34, has held a long-time fascination for designing and building houses. He has gained considerable experience as a carpenter building everything from conventional homes to his own

log cabin south of his native Sudbury.

With no desire to live the life of a city dweller or pay the price of city living. Risto bought 25 acres of land in Finnmark, about half way between Shebandowan and Thunder Bay. Work clearing the site and laying the foundations for his two story log house began in the spring of 1980. Risto, using his experience and information gleaned from a lot of research, decided to employ the "stackwall" method to construct the home which he designed. This type of construction is, according to Risto, thousands of years old. It is durable and easy to heat.

Modern houses are generally built out of "stick wall" construction, that is with a frame of 2 x 4's wrapped in a



Standing amid the tail pines near Shebandowan the Heiskanen home, with its unique log stackwall construction, presents a striking image to passersby. veneer of brick or siding. Conventional log house construction involves laying logs one atop the other and "chinking" them together.

The stackwall technique provides a structure with walls that are two feet thick. In the case of Risto's house, it essentially meant building two walls, an inner wall and an outer wall out of two foot lengths of poplar logs and mortar.

Bark removed and wrapped in standard pink insulation, the logs were laid in mortar so that their ends were exposed on both the inside and the outside of the house. At first glance it appears that the house has a beautiful stone facade, a most striking effect.

The rise of Heiskanen manor was a family affair. Risto's wife Linda, then pregnant with her second child, helped with the work until shortly before she gave birth to an 11 pound son, Markku.

Linda's mother lent a hand babysitting Markku when Linda returned to the homestead. Seisa, her first born, was content with sitting near by mother and father and assessing the quality of various piles of sawdust. Friends often contributed their brawn for this monument to unconventional housing.

Why go through the trouble of building this type of home? "The state of the economy says I can't afford to heat a conventional house," replies Risto matter of factly. "It fits my idea of being utilitarian. It does the job better than anything else."

Financing his dream home meant getting \$15,000, a seemingly paltry sum in the world of mortgages. While his friendly banker was willing to spot him over \$80,000 to build a conventional house, he would not risk a fraction of that amount on an unconventional one. Risto turned to a credit union which did lend him half the amount he needed. They gave him the second portion only after they were allowed to inspect Risto's house during construction.

His unorthodox approach amused, to put it lightly, his neighbors. When they saw 30 cords of poplar arrive at



Risto chops firewood while wife Linda loads it into a storage bin to which they also have access from the inside of the house.



Comfortably perched on a two foot window sill, Linda reads a book. The sill gives an indication of just how thick Risto has built the walls which give his family a warm, cozy environment impervious to bizzards and below zero temperatures.



A view of Risto's upstairs den

the building site they thought "here's somebody who got rooked on the deal."

Poplar is never used in log house construction because of its susceptibility to rot after exposure to water. Risto assures anybody who asks, that his poplar will not get wet and that it should last something in the order of 150 years.

The neighbors, Risto recalls, "laughed real loud" when they witnessed him build a woodshed that could hold only 7 1/2 cords of wood, a relatively small amount of fuel for a northern winter.

The fact is that he doesn't need that much wood to heat his home. Risto estimates that the stack-wall construction gives the house an R value of 25-30. A conventional house has an R value of 11-12.

Using passive solar energy and an oil space heater to supplement the wood stove, the Heiskanen family enjoys a very comfortable existence indeed. When the temperature sank to -42 degrees this past winter the home remained warm.

On his days off and during vacations, Risto continues working on the house, building shelves and doors and installing the electrical wiring. Risto has promised Linda that the house will be completely finished by Christmas of this year. The Heiskanens moved into their home in January, 1981. For a while they had to do without certain modern day amenities, such as an indoor toilet.

As the completion of this very unique structure approaches, Risto has already planned to launch himself into another construction project. "I can't see myself sitting idle after this," he comments. He has found a huge rock on his property into which he hopes to build another house. This one, Risto foresees, will be six sided with complete exposure to the south.

If the stackwall house lasts as long as people anticipate then his greatgrandchildren will be living in and enjoying the house that Risto built.

Inco Employees: 25 years of rolling up their sleeves

For over 25 years, Inco employees have taken a few minutes out to roll up their sleeves and give the gift of life either at the Red Cross Centre in Sudbury or at the blood donor clinics held at their place of work.

Due to poor recording practices years ago, it is impossible to determine the number of units of blood donated by Inco employees.

It is also impossible to determine the number of units Inco employees have donated at the Red Cross Centre since it first opened its doors.

However, since 1980, Incoites can be proud of the fact that they have donated a total of 3,204 units of blood to the Sudbury blood program. All this blood was donated at clinics held at the plant, mine or office where they work.

The principle aims of the Sudbury blood program are to increase the number of donors and to fulfill the requests for blood from the hospitals. The program also involves coordinating volunteer work schedules and making donor awareness presentations to various schools, businesses and organizations.

"Inco has made a significant contribution to the Sudbury blood program," says Mary Ann Quinlan, director of blood donor recruitment with the Sudbury Branch of the Canadian Red Cross Society. "The company has been most generous in allowing its employees to donate during company time and, in some cases, providing the refreshments. It is a pleasure dealing with the Inco organizers who are doing a great job of promoting and organizing these clinics."

And just what happens to the unit of blood once it has been collected? The precious unit is sent to the lab where it is tested, processed and stored.

In one lab department, the blood is tested to reconfirm its group or type the Rh factor and for any traces of disease.

In another department of the lab, the blood is processed into various components, each of which is kept in appropriate storage facilities. Red blood cells are refrigerated to preserve freshness. Platelets are placed in a rotator to cushion these very delicate blood components. In order to provide nourishment for the platelets, a small amount of plasma is retained with them. Cryoprecipitate (one of the clotting factors found in plasma) and plasma are both placed in a freezer to increase their longevity. The tested blood is then sent to the hospital when required.

Concluded Mary Ann, "We would like to thank those donors who actively participated at the Inco blood donor clinics, ensuring we can continue to provide free blood for all Canadians for the continuation of good health and life itself,"



It was a full house at the blood donor clinic held at Levack mine in February. In foreground: Red Cross clinic assistant Susan Basinet chats with Tom Callaghan, Levack maintenance superintendent, as he gives the gift of life.

Photodrafting: New technique aids draftsmen



Inco recipe for photodrafting: take black and white photo of subject (industrial structures, equipment, etc.), develop, make into an 8 x 10 inch print, photo copy using transparent, adhesive drafting film paper.

Presto! A transparent black and white photo with a peel-off backing. Remove backing and apply to existing drawing on drafting paper. The photo adds a three-dimensional quality to the drawing.

Photodrafting is a quick, simple and inexpensive drafting technique which provides greater detail on drafting drawings.

The technique can be used to show parts of structures, equipment and piping that are to be removed. It is also used to show the installation of smaller items such as pipelines in congested areas which would otherwise require extensive measuring in the field and added drafting.

"Since its implementation in the engineering department early in 1981, photodrafting has proven to be a very beneficial tool," says Wolf Puersten, superintendent of design in the engineering department.

"The three-dimensional picture prevents misinterpretation and depicts the facts and details to engineering personnel and contractors' workmen. This technique is just another little step that we have taken in an effort to improve our productivity."

Sounds and looks like a good recipe.

Alberto Vignuzzi peels off the backing of the black and white transparent photo.



Designer Loris Bardeggia, left, and senior draftsman Alberto Vignuzzi determine where the transparent photo will go on the drawing.



From left; Loris Bardeggia, design superintendent Wolf Puersten and Alberto Vignuzzi look over examples of photodrafting on several drawings.



In search of gold

Mickey Prilisauer of Copper Cliff is slowly, without much fanfare, becoming a Canadian star in a sport that demands 11 months a year of his time.

The son of Karl Prilisauer, a design engineer in Copper Cliff, Mickey placed sixth overall in the junior division at the Canadian figure skating championships in Brandon, Manitoba earlier this year and now is moving up a notch to the more recognizable senior category.

Prilisauer, 19, was actually first after the compulsory figures in Brandon but then slipped to consecutive sixth place finishes in the short and long programs respectively. For the uninitiated, compulsory figures count 30 per cent towards a skater's final mark, the short program another 20 per cent and the long program an additional 50 per cent.

"I was kind of disappointed with my short program in Brandon," said Prilisauer who won the Northern Ontario sectionals at the Sudbury Arena.



"It didn't quite go the way I thought it would. It was a perfect, flawless performance but the judges didn't give me the marks. And the long program wasn't a good performance . . I was kind of depressed after the short program."

With his junior eligibility expired, Prilisauer advances to the senior division where he will attempt to unseat two hotshots: defending champion Brian Orser of Penetanguishene and runner-up Brian Pockar of Calgary.

"My coach, Louis Stong, and I had a discussion after the Canadians and what we're aiming for is a placing in the top six next year in the senior division," said Prilisauer.

Born to Hungarian-Austrian parents who came to Canada from Vienna in 1954, Prilisauer continues to perform for the Copper Cliff Skating Club even though he has been tutored in Toronto for the last three years.

"I have no intention of changing my club," said Prilisauer. "The problem is that there is no icetime around Sudbury. The facilities in the Sudbury area are very hockey oriented. The arena where I skate in Toronto is strictly for skating. There are no boards."

"I practised the whole year for 10 minutes in Brandon," mused Prilisauer.

"The compulsory figures take about three minutes, the short program two and the long four. I'll probably stay in figure skating competitively for two years at the most. After I quit skating, I'll be coaching or teaching the sport ... wherever there's a good contract."

Prilisauer practises 30-35 hours a week for 11 months of the year. He gets only the month of June off. In his spare time, he drives automobiles off railway cars for a Toronto firm.

Prilisauer, who finished sixth in novice competition at the 1979 Canadian championships in Thunder Bay, first learned general skating when he was about six.

"Ruth Phillips wasn't really a coach but she sort of looked after me . . . she took me by the hand and took me around the rink. It was something to do one or two times a week at the old rink (Stanley Stadium)," said Prilisauer.

"Joyce McKenzie really gave me my basics in skating when I was 12 and then Allan McPherson coached me for two years before I went to Toronto. I didn't really want to do anything else besides figure skating."

"When I was in grade seven and eight, people used to tease me a lot about figure skating. By grade 9, they were envious because I started going places . . . like Winnipeg and Halitax."

Prilisauer is still going places. He'd love to go to the Canadian championships again next year and then follow up with a berth in the world championships in Helsinki, Finland.

That would be really going places!





Family Album

Family Album Photos

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

Willy Guy Jr., a mantenance mechanic first class at Garson mine, has been with linco for 17 years. Willy, his wife Rachel and children from left; Willy III who is 11 years old. Therese, 15, Natale, 3, and Tina, 5, are keen swimmers. During the winter months the family members swim at the local pool and in the summer at an area lake where they rent a cottage for a few weeks.



Guy Danis, an 18 year veteran at the Port Colborne nickel refinery, works as an electrician in the maintenance department. In his spare time Guy snowmobiles, motorcycles and coaches a girls' slow pitch softball team. Guy's wife, Sue works part time in a grocery store. She enjoys playing softball during the summer months. Debbie, 16, likes travelling as a member of the Lockerview Secondary School. History Club. Cindy, 12, attends Humberstone Elementary School. Her interests include volleyball, skiing and horseback riding.



Swimming, fishing, camping, cross country sking and playing hockey are just some of the activities members of the Levi Perry family enjoy in their leisure hours. Levi, a driffer at McCreedy West mine, his wife Marion, son Robert, 10, and daughter Tracy-Ann, 11, spend their summer vacations visiting relatives and friends in Southern Ontario and Newfoundfand. All the family's recreational activities include, of course, Rex, the family dog.



Inco Supports Hi Steppers

The Port Colborne Hi Steppers are quickly becoming one of the top twill and drum corps in their division and are being recognized on a national level. The group placed second in both the 1960 and 1981 Canadian Championships in the senior novice division. The group performs in many festivals, exhibitions, and parades. Last fail, they travelled to Montreal to take part in the Grey Cup Parade. Inco encourages their activity with financial support and allows them to use the Recreation Hall at the Port Colborne nickel relinery for rehearsals. Many of the Hi Steppers are children of Inco employees.





Exercise Class For P.C.N.R. Staff

A growing number of Port Colborne nickel refinery employees and their families are taking advantage of the Wednesday night exercise class held at the inco Recreation Hall. The class begins at 7:30 every Wednesday and includes stretching exercises, calisthenics and running. According to instructor Wayne Rae, a foreman in the new electro cobalt refinery, the number of participants has been growing steadily and the group now numbers about 30. The objective is to become more physically fit. This is more apparent as nearly all of them stay in the gymnasium to play basketball, volleyball and badminton after the regular set of supervised exercises.



Although the electro cobait refinery in Port Colborne is still under construction, a program of preventative maintenance is already being started. Brian Scott, a preventative maintenance co-ordinator, takes nameplate data and manufacturers' specifications, from newly installed machinery. This information is sorted and made into inspection sheets that will insure proper lubrication and inspection. The electro cobalt refinery is scheduled to start operating late this year.



Curt Huffman, supervisor of safety and training in the anode department of the Port Colborne nickel refinery, looks through slides that are part of a supervision induction program. The program is designed to train supervisors and their temporary replacements. It includes several soundslide presentations that point out situations that might occur during a shift and suggest ways of handling them.



Best Crew

The some 185 members of the maintenance department at the copper refinery have earned the distinction of achieving the best safety record for any maintenance department in the smelting and refining area in 1981.

The maintenance crew includes instrument men, electricians, blacksmiths, machinists, welders and carpenters. Due to the size of the crew, the Triangle took a smaller representative group photo.

Suggestion Plan Reminders

Since the Suggestion Plan was introduced in the Ontario Division, in excess of \$1,000,000 has been paid to employees in awards.

The only way to win a suggestion award - and that includes the \$10,000 jackpot is to send in your ideas. Little ideas are as welcome as big ideas, as the company seeks better and more economical ways of doing our jobs.

Ideas resulting in improvements, such as safety plant housekeeping, quality of production, etc. are also eligible for awards



Members are, back row, from left, Orlie Wheaton, Will Collin, Roy Lister, Norm Urwin, Dave Scott; middle row, left, Fred Gignac, Gil Cote, Michael Paquette, Norman Ray, Charlie Martinu, Heinz Rummel, Ted Kaczkowski, Frank MacKinnon; front row, from left; Phil Landry, Fern Aubin, Austin Burns, Joe Bulfon, Carl O'Grady.

Safety Begins With Teamwork

Fellow employees and supervisors at Stobie mine honored recent retiree Ray Ceaser, for his 33 years of accident free service by presenting him with a framed copy of his last bonus contract.

"He's an example to us all," says Nelson Minor, safety general foreman at the Frood-Stobie complex. "There aren't many men Ray's age who have worked for 33 years in that job without sustaining an injury of some kind. Ray stuck to his safety record right to the end." Adds Ray who worked most of his years underground as a stope leader and driller: "The man upstairs had to have been looking after me as well as my fellow employees. We worked just like a team. We looked out for each other. I believe that the better the relationship you have with your fellow employees and supervisors, the safer it is for everybody."



Members of Ray's old crew present him with a framed copy of his last bonus contract. They are, from left, foreman Mike Kinnane, Dave Domonsky, Len Bona, Bob Whissel, Alme St. Pierre, Bernie Charette, Bert Blanchette and Pat Courchesne.

RECENT STAFF APPOINTMENTS

Lucien Bedard, senior process assistant, process technology, Copper Cliff

Henry Bielanski, senior process assistant, process technology, Copper Cliff

Oldrich Cajanek, supervisor electrical engineering services, engineering, Copper Cliff

Rodney Cooper, mines research engineer, mines research, Copper Cliff. Ronald Ducharme, senior process assistant, process technology. Copper Cliff

Irvin Hrytsak, senior process assistant, copper refinery William Kipkle, superintendent technical services, process

technology, Copper Cliff

Henry L'Heureux, first aid attendant, plant protection, Copper Cliff Ronald McNair, plant engineer, Iron Ore Recovery Plant Charles Nicholson, supervisor accounting procedures, division comptroller, Copper Cliff

Don Pierce, maintenance controller, Garson mine

Murray Pierce, analyst, geological research, Copper Cliff

Fred Stanford, industrial evaluator, industrial engineering, Copper Cliff

Sharon Taylor, senior process assistant, copper refinery



Members of the Clarabelle mill steady day crew are back row, from left, Kirk Lidstone, Julian Constantineaux, Ivan Kumar, Marvin Aho, Roger Godin, Eddle Lemieux, Ray Gervais, Rusty Van Exan, Clarence Cuthbertson, Bill Carlyle and Larry Galipeau. Front row, from left, Rolly Daoust, Larry Rochon, Edgar Lecoutier, Stan Janakowski, Harry Meilleur, Joe Paulaitis and Harold Cameron.

Bowl for Millions

The Big Brothers Association of Sudbury held its annual Bowl for Millions tournament at Notre Dame Bowl and Holiday Lanes in February.

Representatives from league bowling teams, business and the media participated in Celebrity Days, a two day affair which concluded the week of bowling for the Big Brothers Association.

Pledges for Celebrity Days alone totalled approximately \$15,000. Inco Metals Company, represented by Team Inco, contributed \$250

Did you know?

In the 189 production days between January and October 1981, 44,655 tons of one per day were pulled out of the company's operating Ontario division mines to the Big Brothers Association.

"Big Brothers would like to thank all teams for participating in the Bowl for Millions Celebrity Days," said Ron Babin, vice-president of the Big Brothers Association of Sudbury, and a process supervisor at matte processing. "Without the support of league bowlers, the media, and businesses such as Inco Metals, who has participated annually in this event, Big Brothers would not be able to operate efficiently."

Team Inco consisted of Pat McNamara from technical services, process technology, Claude Kerr and Ron Santala, both from central utilities, Karen Curry from public affairs, Dick Bontinen from metallurgical data, accounting department, and Laura Mitchell from the Copper Cliff nickel refinery.

Team Inco emerged victorious over the team from Falconbridge Nickel Mines Limited.



Members of Team Inco were in fine form for the Celebrity Days tournament. They are, back row from left; Pat McNamara, Claude Kerr, Ron Santala; front row from left; Karen Curry, Dick Bontinen, Laura Mitchell.

Did you know?

That in a period between January and October 1981. 26.819 feet of drifts were drilled in Inco's operating Ontano division mines?

That in 189 operating days between January and October 1981, 2,714 feet of ramps were developed in some of Inco's operating Ontario division mines?

Mill safety

Bill Carlyle's steady day shift has distinguished itself at the Clarabelle mill by going nearly a year and a half without any reported injuries.

According to Bill, this shift is the only one at the mill that can claim such an excellent record.



From left. Aldo Malchior, Donna Somers and far right. Ted Latrellie, look on as Len Andrews records the scores.

'Fun Spiel''

Close to 170 employees of the copper relinery curied to their hearts' content at the Copper Clift Curling Club Feb. 12-13 during the refinery's athletic association curling bonspiel.

The annual event, which has been going on for over 25 years, was organized by curling committee members Carl O'Grady, Brian Rogers, Bob Miller, Len Andrews and Donna Somers.

The bonspiel or "fun spiel"

as its to known to many. concluded with a dinner and the presentation of prizes to all participants.

"It was a real good do." says Bud Eles, secretarytreasurer of the athletic association and an analystat the copper refinery's main lab. "We had no problem filling the rink."

The team of Brian Rogers. Joe More, Don Burke and Bill Whittaker swept up the prestigous curling title.

Cowboy Wayne Wilcocks keeps a keen eye on the line as he delivers the stone.





Walter Arpin, right, a dniler at Shebandowan, accepts his Wise Owl Club award from Bernie Cadleux, a recently retired safety supervisor.

Wise Owl

Safety glasses saved the eyesight of Shebandowan driller Walter Arpin and earned him his induction into the Wise Owl Club of Canada.

While working in an exploration drift Walter tried to pull a drill steel from the reamer hole. The steel refused to budge so he used both hands. His left hand slipped off the machine and hit the throttle handle causing the air to blow the cuttings out of the hole. The cuttings struck Walter's face with enough force to shatter the lens of his safety glasses and Walter credits his glasses with preventing any serious damage to his eyes.

Did you know?

Most of the blasting done underground at inco's mines in the Ontario division is done with a blasting agent known as Amex II manufactured by CiL. It consists of a free flowing, carefully blended, plant mix of ammonium intrate prils and oil which includes special ingredients for reducing the generation of static electricity during pneumatic loading operations and to prevent setting-up of the blasting agent when in storage. One rule of thumb that people in the explosives business go by is that it takes 1/2 a pound of Amex II powder to break a ton of rock. Imagine the amount of ore that the nearly 10,000,000 pounds purchased by the company last year could break up.



New C.I.M. executive members are, from left, Dennis Hepworth, Jim Ashcroft and George Norman.

CIL Elections

The Sudbury Branch of the Canadian Institute of Mining and Metallurgy held its annual election night meeting in January.

Members elected George Norman, senior metallurgical engineer, and Dennis Hepworth, mine planning engineer, both of Falconbridge Nickel Mines Limited, to the positions of chairman and treasurer respectively. Jim Ashcroft, manager of Inco's Frood Stoble complex, was elected vice-chairman.

During the meeting, Eric Kossatz, Inco Metals' vice president of mining, introduced guest speaker Hugh Ferguson, training supervisor at Frood-Stobie complex, who discussed "Inco and the Underground Miner".

In his presentation, Hugh outlined Inco's modular training program at the centralized training facility at Frood-Stobie complex.



Marshall Dutfy, left, listens to Joe Fraulin's analysis of what is wrong with this particular method of slinging materials.

Transportation safety

Recently the transportation department held one of its periodic safety demonstrations, this time dealing with the proper method of slinging pipe from a mobile crane.

Marshall Duffy of the tranpsortation department gave the demonstration while the crane was operated by Earl Dorey. Members of the yard services section took in the safety demonstration.

Did you know?

That 1,289,668 feet of long holes were drilled in Inco's operating Ontario division mines in a period of time between January and October 1981?

Between January and October 1981, 260,871 feet of in the hole was drilled at Inco's Ontario division.

Ski patrol competition

The team from the Algonquin zone (Sudbury, North Bay and Espanola) displayed winning form in the Canadian Ski Patrol Ontario Division First Aid Competition held at Nordic Ski Hill in February.

For the first time, the Algonquin team clinched the overall trophy, earning the highest overall score from all events in the competition. The ten teams, each consisting of four members, were judged on their first aid expertise as well as their on-hill procedures such as the proper transport of victims down the hill.

At press time, the Algonquin team was honing its ski patrol skills for the Canadian Ski Patrol National First Aid Competition to be held in Toronto in late March.

Judges (background) examine the first aid skills of Algonguin team members Kim Kuchma, a MacDonald Cartier Secondary School student, and Mike Roger, a senior process assistant at the Copper Cliff nickel refinery, as they assist an injured skier.



Suggestion plan awards



\$3,060 Henry Komar and Hector Poulin

A total of \$12,485 was awarded this month.

A twosome from Copper Cliff South mine, Hector Poulin and Henry Komar, won this month's largest suggestion plan award for redesigning the sandfill drainage box. Their design eliminated the use of all four inch fittings in connecting the drainage system. The new system is not only cheaper but it also provides better drainage.
Recently Nunzio DiMatteo of Port Colborne was awarded \$270 for his suggestion of moving the scale for packing utility nickel shot inside the packing room by altering the chute to fill the bags on the scale inside the packing room. Nunzio has now received an additional \$1,710 for his laborsaving idea.
Finding that the eight aging load cells on the tipple weigh scale were about to be replaced by brand new ones, Royal Gaudrault and Lauri Kari of the Clarabelle mill , recommended that the old ones be rewound. When they did this the cells were found to be effective and Royal and Lauri were given an award based on the money this suggestion saved.
A proposal to bypass the sewage.pump house at the I.O.R.P. by means of direct gravity flow previously brought Albin Tychowecki an award of \$210 as it improved working conditions. Since then the merits of this suggestion have brought Albin an additional \$645.
Three employees at Levack mine, Rene Bradley, Marcel Castonguay and John McDonald improved working conditions in two loading pockets by asking that muffler hoses be connected to a single pipe with an exhaust leading up and out of the rock pass. This, it was found, cut down on oil mist and reduced noise levels. It also eliminated the need for ten mufflers.
An award of \$490 was presented to Antonio Fragomeni of the Copper Cliff copper refinery for additional savings. His suggestion dealt with modifications to a ladle hookup.
The two end tuyeres on copper converters #13 to #19 in the smelter were too close to the end walls, noticed Claude Degagne. Eliminating these tuyeres would end wall washouts, lessening the possibility of leaks and extending the life of the converter, he observed.
An idea that brought material savings was set forth by Frank Fava of the smelter. Often hot metal would run out of the end of the Garr gun onto its hose causing it to burn. He recommended relocating the hose back further underneath the gun where it is safe from spills.



\$1.710 Nunzio DiMatteo

\$1,020 Royal Gaudrault and Lauri Kari

- \$300 Raymond Poulin of Garson mine and former employee Norman Buchy shared an award for recommending that manufactured sleeves known as Speedi-Sleeve be bought and used in repairing worn ring gear cover seal faces. This type of sleeve can be installed in two or three minutes, a significant reduction in labor if one considers that the old sleeve was machined and pressed on. The Speedi-Sleeve is made of stainless steel so that the problem of rusting is also eliminated.
 - \$190 Vito Silvestri of the Clarabelle mill came up with a method of repairing standard head shaft nuts on the job site rather than having them removed and sent out. This saved on labor and downtime.
 - \$150 While the manually operated fan in the compressor cooling tower at South mine worked well in the summer it allowed water that was too cold to enter the compressor in the winter. Robert Rosset offered an acceptable solution to this problem with his suggestion of installing a temperature control apparatus in the compressor cooling tower.
 - \$150 Wolfgang Bauer of Levack mine made a device for machining skip and cage sheaves that reduced machining time and gave a better finish to the side of the sheaves.
 - \$145 To save on motor oil pan breakage and related problems of broken studs and housings on diesel locomotives, Mel Ferris and Oscar Potvin of Creighton mine suggested strengthening engines by installing double motor mounts.
 - \$140 Roy Manning of central utilities advised the installation of a separate relay with its own power supply and switch on the Dezurik valves in the oxygen plant. This would allow an operator to bypass a malfunctioning — main switch and permit the continued operation of the plant.
- \$140 Wilbert Spencer of the locomotive shop was awarded an additional \$140 for a suggestion dealing with the remachining of the pinion end of the armature shaft on traction motors.
- \$140 Savings in material and labor resulted at the Copper Cliff nickel refinery with Robert Bray's method of half strapping automatically with the vertical strapper.

One, two, three strikes you're out in the old fastball game.

The last bank of snow will have barely melted away when members of the Copper Cliff Men's Fastball League start limbering limbs in preparation for another campaign on the diamond.

Last summer four teams from different areas of the company traded strike for strike, run for run in a duel for league honors. In the end, the crew from the General Office managed to take the crown in the face of competition from the Copper Cliff nickel refinery, the Copper Cliff smelter and the Iron Ore Recovery Plant.

League organizers would like to see other areas represented in the league. Games are played every Tuesday and Thursday under the lights at Cambrian College field. Commented one official; "It doesn't matter who they are as long as they represent a surface plant or a mine and as long as they can play at night."

Anyone interested in entering a team in the Copper Cliff Men's Fastball League should contact Murray Edward at 682-5449 or Larry Jacques at 682-0651.

League Invites Applications



Action from last year's championship series. Tom Mercier of the General Office waits for the right pitch as Bob Gravestock performs the catching duties for the I.O.R.P. squad.



General Office catcher Ben Higgins guns down an LO.R.P. runner attempting to piller second base during a game in last season's finale. Looking on are umpire Ray Newman and LO.R.P. batter, George Chomitsch.