

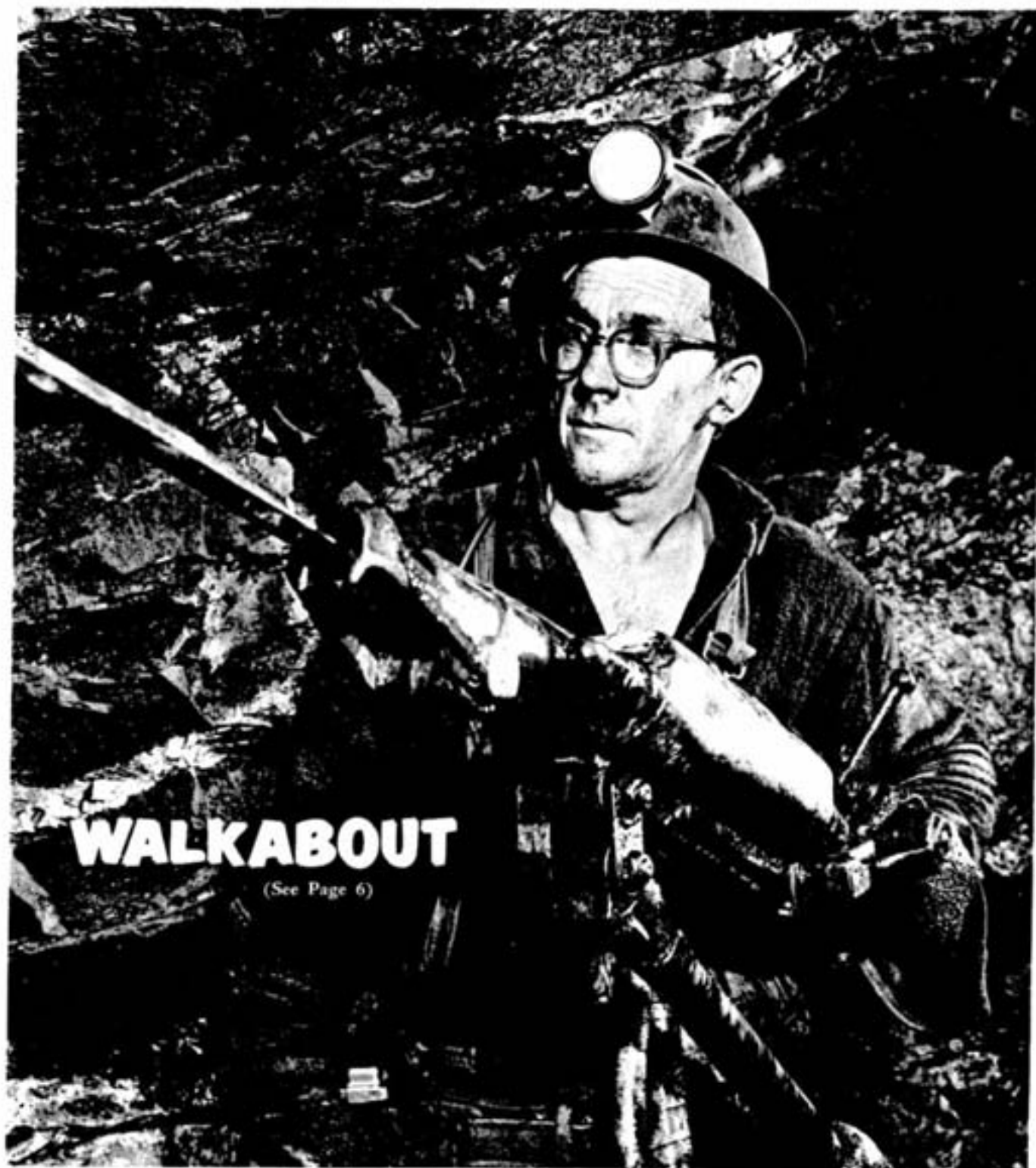


INCO TRIANGLE

VOLUME 31

COPPER CLIFF, ONTARIO, OCTOBER, 1971

NUMBER 7



WALKABOUT

(See Page 6)

Sudbury radio club volunteers are ready for any emergencies

Using highly-sophisticated equipment, the Sudbury and District Amateur Radio Club's behind-the-scenes volunteers are ready to go into action if an emergency occurs . . . within minutes.

Last winter, the club became affiliated with the local Emergency Measures Organization (EMO) and the radio hams now provide all emergency communications for the disaster organization. As part of this responsibility, the club has introduced a new service to connect all the Sudbury and district hospitals when regular telephone service is disrupted during emergency situations such as floods, fires, tornadoes, etc.

To handle the job, club members have adopted very high frequency (VHF) receiving and transmitting equipment, and now broadcast on what is equivalent to the upper range of the commercial FM radio band.

Under the supervision of a new full-time coordinator, the local Emergency Measures Organization has undergone an extensive revision to improve its readiness. One of the radio club's members, Doug Stickles (a radio specialist in Inco's applied geophysics department) was appointed emergency communications officer. He acts as the EMO's liaison with the radio club and is responsible for calling them into action. He meets regularly with the EMO staff and keeps the radio club up-to-date with their requirements.

Once-a-month, the radio club stages a readiness exercise and checks its communications equipment linking the hospitals. Club president Richard Forget is an instrument foreman in Copper Cliff. He said that within 30 minutes from the time the initial call is made to the club, the system will be in complete operation.

Inco radio club members and their stations are: Richard Forget, Copper Cliff Hospital or Lively Medical Centre; Geoff Horsfall (planned maintenance, Garson), reserve man, or base station; Roy Bain (purchasing, Copper Cliff), Copper Cliff Hospital or Sudbury General; Dave Green (Stobie Mill), Memorial. Other members of the club cover the rest of the area's hospitals.

The emergency communications are important because without them it would be difficult for the hospitals to contact specialists at other medical centres for consultation; call for help from blood banks; or, in the case of a hospital filled to capacity during an emergency, poll the other hospitals to see which can admit more patients.

Fifteen of the club's 25 members now broadcast on the FM band, and eight have broadened the usefulness of the system by installing mobile sets in their cars. The rest still use conventional shortwave radios.

Richard Forget said the FM band is preferred because it offers privacy and easier access to

(Continued on page 12)



Every month, club members station themselves at the Sudbury area's hospitals and run checks on their equipment by communicating between the points. Here, Memorial Hospital administrator Don Fish is assured by Doug Stickles that the signal from the Copper Cliff Hospital is coming through loud and clear.



Richard Forget checks the performance of the repeater station's components while Ken Buchanan, who helped Richard build the station, reads off the results on the test meter. The kind of readiness that results from this constant vigilance over equipment paid off in the aftermath of the August 20, 1970, tornado, when club members set up a shortwave radio station in Lively. Said Richard: "Between the time the storm struck and the re-establishment of the first telephone services, our 10 members handled 974 calls to and from anxious relatives."



Established in 1936



This month's cover

Driller Fred Schiewek is one of the people you'll meet on this month's walkabout at Garson and Kirkwood Mines. The photostory starts on page 6.

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Pigott, Peterson get new posts

The Company has decided to separate the executive management of the Indonesian Project from that of its activities in



J. A. Pigott

H. W. Peterson

Australia. To accomplish this purpose the following changes will be effected as soon as practical:

H. W. Peterson, vice president, Inco Canada will transfer from Sydney to the New York office. As managing director of P. T. Inco Indonesia he will be responsible, under the direction of J. C. Parlee, senior executive vice president, for administering all aspects of the Indonesian Project.

J. A. Pigott, vice president, Inco Canada is appointed to the additional position of president, Inco Australia, Ltd. He will transfer to Australia and will be responsible for administering the Company's affairs in Australia, reporting to Mr. Parlee.



INCO FAMILY ALBUM

Eganville in the Ottawa Valley is the original hometown of Celine and Garry O'Reilly who now live in Garson. A timberman at Garson Mine, Garry started with the Company in 1947. Their two sons are Dan, 20, and Tim, 12. The O'Reillys like tent trailering and snowmobiling. Mrs. O'Reilly is a school librarian in Garson.



Both Alex Boyle and his wife, Monique, are from Sudbury and this is where they continue to make their home. Alex is a shift boss at Stobie Mine and started with the Company in 1960. The three Boyle children are Keith, 10, Neil, 8, and Scott, 3. Alex likes bowling (he had a perfect 450 game in 1966) and golf, while Mrs. Boyle enjoys reading and needlework.

Gallander near North Bay was the birthplace of Leo Boyer, a shift boss in the converter building of the Coniston Smelter. Leo started with the Company in 1956. His wife, Shirley, is the daughter of the late Pete Davis, a Coniston Smelter pensioner. Their two children are Tim, 12, and James, 10. The Boyers count curling, fishing, baseball and hockey among their interests.



Garnet Phillips and his family live just outside Lively, which Garnet finds handy to his job as a 1st class maintenance man at the Creighton Mill. Born on Manitoulin Island, he grew up in Waters Township and started with the Company in 1959. His wife, Louise, also an islander, grew up at Tehkummah. Their two children are Beverly Ann, 3 and Wendy Lynn, 5. The Phillips enjoy bowling and camping.



The age spread between the oldest and youngest in the family of Port Colborne Nickel Refinery computer operator, Bob Bozzato and his wife Virginia, has its advantages—built-in baby sitters will be one of them. Bob joined Inco in 1956 in the accounting department and transferred to data processing in 1959. Bob enjoys bowling, golf, camping and coaching

the 7-8 year olds in the Welland Minor Hockey League. Their happy family includes Kelly, 9, Leah, 1 month and Shelley, 11.

Bob Moore's summer jobs on a railroad gang in northeastern Ontario guaranteed a future at Inco between the rails. Bob is a locomotive engineer with the Copper Cliff transportation department which he joined in 1956. He was born in Cobalt and worked there as a miner for six years previous to starting with Inco. His wife, Gayle, was born in Haileybury but grew up in New Liskeard. Their two children are Michael, 14, and Terry, 12. The whole family enjoys tent-trailering at Fairbanks Lake Provincial Park, their favorite campground. The Moores live in Sudbury.





District scout commissioner Vern Field (mines engineering) presented Robbie MacTaggart with the silver cross emblem for gallantry at a meeting of Robbie's Cub pack in New Sudbury.

Young hero awarded medal for saving friend's life

Nine-year-old Brent Lahaye of Sudbury is alive today because of Robbie MacTaggart's quick-thinking last spring. Recently, 10-year-old Robbie, a sixer in the 16th Sudbury Cub Pack, was awarded the emblem of the Silver Cross, the second highest award for gallantry. He will be officially invested with his medal by Governor-General Roland Michener, the Chief Scout, in a ceremony in Ottawa next month. Robbie is the son of Froid hanger aero mechanic Lloyd MacTaggart.

The incident occurred shortly after Robbie and Brent left school. The two boys decided to see whether the path along Junction Creek was a quicker way to get home than going

down Delaware Avenue and Hawthorne Drive in New Sudbury. Brent took the Junction Creek route and when he attempted to jump across the creek, he misjudged and landed short, breaking through the thin ice.

Robbie heard his friend's cries for help and ran down to the creek. Brent was treading water as he had been taught to do at the YMCA. Robbie lay down on the ice and tried to pull Brent out by the hand, but couldn't hold him. Then the youngster remembered seeing a television program about safety rules, and lay down on the ice again and clutched Brent by the wrist. This time he was successful and pulled him out of the cold water.

Special program helps orientate new engineers

About 80 newly-hired engineering graduates recently completed a special orientation program at the Training and Development Institute in Sudbury. Designed to help them "get to know us" at Inco, they spent a week being briefed on Company history and organization, benefits programs, purchasing and warehousing procedures, safety, the Inco maintenance system, accounting, industrial waste control, training and development, and industrial relations. Where possible, representatives from the departments concerned met the engineers and answered their questions. While at the training centre, they also saw films on mining, milling and smelting, and waste control.

During the week, they visited the data processing centre in Copper Cliff, and the mines



Three from the smelter learn how mechanized equipment is maintained underground at Creighton No. 3: Frank Boniakowski, Roy Verbrugge, and Geoff Taylor.

engineers visited the smelter, copper refinery, and iron ore plant, while the process and surface engineers visited Creighton No. 3. A second orientation program, this time for newly-hired mines exploration engineers, is scheduled for this month.



Some of the group of new mines engineers who toured the copper refinery as part of the week-long orientation program are seen here: Choon Park, Creighton No. 5 mine; Phil Taylor, Froid engineering; Rick Staples, mines projects, Copper Cliff; Arthur St. Louis, Garson engineering; Frank Schmidt, copper refinery guide; Allen Buhr, mines projects, Copper Cliff; and Gerald Minsky, Crean Hill mines engineering.

Laval University students sample Stobie Mine



Five graduating-year engineering students and two professors from Laval University's department of mines and metallurgy paid a two-day visit to Inco's Sudbury-area facilities last month. While here, they were shown the underground caving operations at Stobie Mine and the extensive use of mechanized equipment underground, the Froid-Stobie and Copper Cliff Mills, the tailings area, the smelter and the copper refinery. Above, Stobie driller John Lecoupe explains the operation of his secondary drill to André Godbout and Michel Robinson.

Three more earn safety diplomas at Port



Les Lewis, Joe Rossi, and John Zimmer of the Port Colborne Nickel Refinery were successful graduates of a safety seminar held recently in Welland, Ontario, under the sponsorship of the Industrial Accident Prevention Association. The course, Accident Prevention Fundamentals, was specifically designed to pinpoint potential causes of accidents and how to eliminate

them. John Zimmer, supervisor, training and development, said he plans to incorporate the course into his first-line supervisor training program, with the objective of moving one step closer to a "frequency zero" accident rate. Above, Les Lewis, assistant safety supervisor, and Joe Rossi, safety supervisor, are congratulated by Charles Ott, assistant to the manager.

Inco pensioner consults overseas

Half-way around the world in Kashan, Iran, Inco pensioner Leonard F. Kitchener has a new job. He's serving as a special consultant to a spinning company which requested an advisor from Canada familiar with powerhouse operations. His assignment involves setting up a maintenance and repair program



and training new stationary engineers to continue his programs. He will be in Iran for about six months.

Len Kitchener's posting was arranged by the Canadian Executive Service Overseas (CESO), a non-profit organization formed in 1967. Its purpose is to recruit senior Canadian executives and technical experts, usually retired, to serve as volunteer consultants to developing countries. CESO pays all transportation charges and the host government or organization pays for living expenses and accommodation.

Chief engineer at the copper refinery for all of his 30 Inco years, Len retired in 1962. Qualified as both a mechanical and electrical engineer, he specialized in boiler and pressure problems. He helped design the 6000 KVA transformer for No. 2 arc furnace, the waterwalled gas-fired auxiliary boiler, and most of the safety devices installed when natural gas came into use in the refinery.

Following his retirement from Inco, he moved to Brampton where until his recent "second retirement", he was chief engineer of the Peel Memorial Hospital.

Skid you not

Did you know that you can lessen the danger of skidding on wet roads by driving on the "tire wipes" left by vehicles ahead? Even in heavy rain, car tracks remain visible and relatively free of water for several hundred feet.



Practising skid stops under the watchful eye of Instructor Allan McPherson are: David Huffels, Steve Johnston, Peter Burns, and Tommy Faddis.

Power skating is hard work for 450 kids

Stanley Stadium in Copper Cliff has become the centre of pre-season minor hockey activity in the Nickel Belt. Hard on the heels of the recent successful hockey school, over 450 youngsters between the ages of 7 and 17 received instruction in power skating from Allan McPherson. This is the second year that Allan, who was Scottish free skating champion for five years before he came to Canada, has offered the course.

Divided into age groups of 7-9, 9-11, 11-13, and 13-17, 45 youngsters took to the ice during each of the four classes in the evenings. The course ran for seven nights, one hour of hard skating each night.

The boys were drilled in what Allan calls the "basics": skating



Allan McPherson leads the boys through a series of push-ups during the 15-minutes of exercises at the beginning of each session. The 60-minute periods go non-stop and the boys have to be in good shape.



Concentrating on what the instructor has to say are Gary Smith, Steve Johnston, Bruce Eaton, and his brother, Kevin Eaton.

Below, watching a demonstration by Allan McPherson are Fred Vandenburg, Robert Dufresne, Bruce Faddis and Brian Jones.



forwards, backwards, stopping, starting, and turning. Definitely not a figure skating course, all instruction was related to the boys' hockey experiences: Allan constantly reminded them to keep their heads up to watch where they were going, and to maintain their balance at all times. Discipline was stressed too and Allan was strict with boys who played pranks on the ice.

Besides the skating skills, the course aimed to improve the youngsters' coordination and physical fitness. The first 15 minutes each night was spent in calisthenics which also served as a warm-up. Those who took

the course, Allan noted, got in shape quickly and were ready for their first league games.

Rolly Wing, Stanley Stadium manager, said he planned only two weeks of power skating but the available vacancies were filled so quickly that he had to add a third week and later a fourth. Next year, he said, the course will be modified to 10 one-hour sessions over a two-week period. It will also run for a month and if the demand is there, he'll extend it, he said.

The participants at this year's school came from all over the Nickel Region: Levack, Valley East, Coniston, Sudbury, Lively, Copper Cliff and Espanola.



HUGH RORISON

Preparing to leave the cage and enter the 2800 level shaft station at Garson Mine, cage-tender Hugh Rorison is seen here ringing a three-bell call on the shaft signal system that indicates his intentions to the surface hoistman.

A miner since he came to International Nickel in 1934, Hugh has worked at Garson since 1939. He has tended cages for the last 17 years, and figures that during that time he's travelled close to 75,000 vertical miles.

A native of Bonnie Scotland, Hugh grew up in Spring-side, Ayrshire, and was transplanted at age 12 when he came to Canada and Sudbury in 1929.

He and his wife, Grace, have a grown-up family of three and "our surprise package", daughter Laurie age 7. A resident of Garson, Hugh enjoys his quarter-mile twice-a-day walk between home and the mine.

GERRY BLANCHARD

On the 400 level of Kirkwood Mine, stope leader Gerry Blanchard had just completed the drilling of a stope face, and was using a pneumatic loader to charge the holes with Amex, a granular explosive made from ammonium nitrate and diesel oil.

Gerry's earlier life was spent in very different surroundings. One of a family of 14, he grew up on his father's dairy farm near Marionville close to Ottawa.

Newly married and 24 years old, Gerry left the farm to try



WALKABOUT

Meet some of the people at Garson/Kirkwood Mines

his hand at the mining game in 1952. He joined the Company at Creighton, and transferred to Kirkwood in June of last year. He and his wife, Valine, are Sudbury residents and parents of four sons.

NORM SYNNOTT

A topman at Kirkwood Mine, Norm Synnott moved over from Garson Mine when Kirkwood came into production early last year.

Responsible for the efficient operation of the mine's shaft, Norm controls all skip and cage activities. This includes



the movement of miners to and from their working place levels, the hoisting of the mine's ore production, and the delivery of materials and equipment. He is also in charge of the mine's water pumps.

Born in Stayner, in southwestern Ontario, Norm joined Inco at Garson in 1948.

Norm and his wife, Ina, live in Garson. They have a family of three. Come vacation time, the Synnotts usually head for Canada's east coast with their camper trailer.

GORD MCINTYRE

A security guard at Garson, Gord McIntyre came to Inco early last year following a 12-month stint with the Ontario Provincial Police at Wawa. He is 24 years old.



Born with an "inquiring mind and a nose like a bloodhound", Gord admits that he's happiest when he's involved in investigations and the tricky business of gathering clues that could lead to the logical solution of a problem.

Born in Cache Bay, he married Claire Duschene of Sturgeon Falls in 1969. They are expecting delivery of their first-born later in the month.

Our picture was taken while Gord was checking traffic at the mine gate. Presenting identification is services foreman Dave Mann.

STAN GIRARD

High on a gangway, while making a sandfill pour in a cut-and-fill stope on the 3000 level at Garson, sandfill boss Stan Girard is seen while directing a surging stream of waterborne sand and cement. The completed pour will raise the floor of the stope some 10 feet, enabling drillers to make another cut in the overhead ore.

Born in Ville Marie, Quebec, Stan started with Inco at Garson in 1946. He and his wife, Florence, are the proud



parents of three sons and two daughters.

Happiest when he's clumping through the bush with either rod or gun, Stan grabbed the Ontario record for pike in 1963 when he pulled a 38-pound 10-ounce lunger out of Lake Timiskaming. "A 45-minute battle I'll never forget," he commented.

Owner of a small armory comprising seven rifles, Stan manages to drop a moose every fall. "Where?" he echoed with a grin, "Why in the bush of course—where else."

RAY MAKI

A 1st class maintenance electrician at Garson, Ray Maki is a graduate of Inco's apprenticeship training program.

The son of Frood Mine topman Auri Maki, Ray was born in Sudbury. He started his four-year electrical apprenticeship and his Company career at the iron ore plant in 1964. During his training period he worked at Levack, Copper



Cliff and Coniston, and settled at Garson in 1969.

The Triangle camera moved in on Ray in the mine's powerhouse, where he was "being prepared" by adjusting a spare time-delay relay.

Single and 26, Ray enjoys outdoor life, and has just completed the construction of a summer place on Lake Penage. A member of the Crean Hill Gun Club, he regularly attends target practice sessions with his .22 calibre semi-automatic pistol.

LAURIE CARROLL

It was a combination of steady employment and the chance to earn a better pay cheque that attracted Laurie Carroll to Inco.

While visiting relatives in Sudbury in 1957 he sized up the local situation, returned to his home town of Lantz-



siding in Nova Scotia, and two months later packed his bags and headed back to the nickel capital of the world.

Starting with the Company at the Copper Cliff reduction plant, he moved into mining at Garson in 1958, on to Creighton in 1959, and to Kirkwood last year.

A diesel loaderman, he was photographed at the controls of a powerful load-haul-dump machine on the 400 level of the mine.

Unmarried and 40 years old, Laurie "prefers his freedom".

BOB BANKS

On-the-job in the 3000 level cut-and-fill complex, Garson driller Bob Banks was photographed while preparing to drill up-holes with a trackless twin-boom jumbo.

Bob grew up on a farm near Shelburne in southwestern Ontario, left the land to work in a furniture factory at Owen Sound, and came to work in the Copper Cliff Smelter in 1959.

Switching from reduction to mining, Bob made his first trip underground when he moved to Garson as a mine beginner in 1960.

Together with his wife, Grace, and their three youngsters, Bob returns regularly to his parent's farm come vacation time. "We all enjoy our stay there," he said. "But I'm always glad when we're heading north again. Farming's OK, but this mining game gets into your blood."

SAM TOIVOLA

Like his father before him, Sam Toivola lives in Garson and works at Garson Mine.

A 1st class machinist, Sam joined the Company as an apprentice in 1943. Busy in the mine's surface machine shop when the Triangle camera zeroed in on him, he is seen while boring a stainless steel



insert destined for mine water pumps on the 4000 level.

He and his wife, Clara, and their three youngsters leave on most summer weekends for Lake Wahnapiet and the family's summer cottage. "Believe it or not," said Finlander Sam, "we don't have a sauna there. My neighbor has a good one so I didn't need to build my own."

Sam's other spare time relaxation is wood turning. "I know it's similar to my job," he said, "but working with wood is a pleasant change from working with metal."



DICK ALTMAN

Dick Altman was photographed against a very appropriate background. It's a timber pile, and as yard labor boss, Dick is responsible for every stick of lumber that is used both on surface and underground at Garson Mine. He and his crew of 12 also handle all other incoming and outgoing mine supplies and equipment.

Dick hasn't always worked on surface. A native of Winnipeg, he grew up on a Saskatchewan homestead, and started his career with International Nickel at Frood in 1938. He worked underground

there and at Levack and made his move to Garson in 1943. He was employed as a trammer boss prior to the 1969 switch to his present job.

A Manitoulin Islander, Rena Hembuff, became his wife in 1942. They have a family of two.

Owner of one acre of Manitoulin Island near Sheguiandah, Dick's retirement dreams involve the building of a comfortable home there.

ANGELO CASSANDRO

You wouldn't guess it from the picture, but Angelo Cassandro is Kirkwood Mine's lamproom attendant. "Looking after 280 lamps doesn't take all day," he explained, "so I have other duties."

One of those duties concerns the operation of the mine's lime contact plant where mine water is treated before discharge to settling ponds. He was photographed while recharging the plant's volumetric dry lime feeder.



A native of sunny Italy, Angelo grew up in Venice, and learned the mason's trade while rebuilding some of the city's many canals.

He came to Canada to marry Lena Piazza in 1950, and made his first trip underground as a mine beginner at Creighton in 1951. He's worked at Kirkwood for the last 18 months.

Angelo and his wife live in a large six-bedroom house in New Sudbury. Their king-size family of nine range in age from 20 to 14 years old.

NORM ZANUTTO

Norm Zanutto has been totting up long columns of numbers since he started into the working world as a Sudbury bank clerk.

A timekeeper at Garson, he came to Inco in 1970 after a career that took him to Toronto as a bank teller, brought him back to Sudbury as a



construction site timekeeper and an automobile dealer's credit manager, followed by the establishment of his own collection agency. "The collection bit wasn't for me," he said. "You have to be mean in that game and that's just not my temperament, besides which I had three guns pulled on me."

Thirty-five years old, Norm married Dorothy Sitko in 1960. They are parents of four.

Norm's spare time is crowded. Not only does he golf, bowl, and coach little league ball, he also finds time to perform the duties of a Coniston town councillor and belong to the governing bodies of Coniston's Club Allegri and the Coniston Credit Union.

He is the son of Company pensioner Tony Zanutto, who retired in 1969 after 34 Inco years at Coniston.

FRED SCHIEWEK (Cover)

With a look of rugged determination showing on his face, Fred Schiewek was photographed on the 3000 level at Garson Mine while biting deep into an ore body with an air leg drill.

A man who enjoys a challenge, Fred recalled a rough one that came his way in 1968. A pilot since 1954, he crash-landed his Piper Cub on a lake 10 miles back in the bush north of Chelmsford.

"There were no roads there, so some friends and I cut one and hauled the wreckage out by snowmobile," he said. "It took most of the winter, but we did it." Nearly rebuilt, he hopes to have his plane in the air by next spring.

Born in East Germany, Fred came to Canada in 1951, started with Inco at Copper Cliff in 1952, and has worked as a driller at Garson since 1960.

He and his wife, Inge, live in Val Caron. They have two sons.





Seen during a regular maintenance inspection is the inside of one of Frood-Stoble Mill's six giant grinding mills. Thirteen feet in diameter and 18 feet long, the ball mill is protected inside by 70 tons of Ni-Hard liners containing from 4% to

4.75% nickel. The grinding media on the bottom consists of 125 tons of tapered Ni-Hard billets. Driven by a 1,750 hp electric motor, the mill revolves at a speed of 16 rpm, and has an overall weight of 215 tons. Slurry feed to the mill con-

tains 80% nickel sulphide solids about the size of coarse rock salt. After grinding, the solids are reduced to the size of fine sugar. Mill shift boss Buster Martel is in the picture.

Faces & Places

The Us Three, a talented local folk-singing trio of Grade 13 students, have been very busy. Ontario Place talent scouts booked them into the Ontario Place Forum. A concert in Thunder Bay, sponsored by the Ontario Council for the Arts, and the Massey Agricultural Fair were two other engagements. They are



Sudbury Star

also regulars at the coffee house at Lo-Ellen Secondary School. Above: Jane Ripley, Kim Turcotte (daughter of Fred Turcotte, Copper Cliff North engineering), and Viola Mazerolle (daughter of David Mazerolle, a 1st class maintenance man in Copper Cliff).



Organized Pee Wee baseball has come to Copper Cliff. Directed by Harold Vatcher (data processing) and backed by strong parental support, the league enrolled some 140 bat-swinging youngsters between the ages of six and 12. Seen front and centre in this picture is Kirby Blais, captain of the "Pirates", who claimed top honors as league

champs. Around him, the lads voted as most valuable players of each of the six competing teams are, front row: "Expos" captain Steven Kusan and "Cardinals" captain David Creasey; back row: "Phillies" captain David Mossey, "Pirates" Bryant Higgins, "Cubs" Shawn Kanerva, and "Mets" captain Barry Bissonnet.



Christopher Duffett, from Inco's London, England, treasury office, visited the Port Colborne Nickel Refinery recently. Here, he watches Dave Thomas, senior plant operator and Larry Little, shift leader, turn on the power to start the solvent extraction system in the cobalt-nickel separation process under development in the No. 3 research station.



Cambrian College

Crowned frosh queen at the end of Cambrian College's Frosh Week celebrations was Marilyn Ferris of Lively, daughter of Keith Ferris, a 2nd class maintenance mechanic at Creighton No. 5 Mine. Miss Ferris, enrolled in Cambrian's medical secretary course, was chosen queen in a six-way contest. Runners-up were Sharon Sedore of Espanola, and Mabel Blakely of Sudbury.



Sudbury and district Boy Scouts and Cubs held their annual "apple day" earlier this month. The 1st Levack Cub pack sold nearly 500 apples in that community. Above, salesman Stanley Kleniewski completes a sale to driller Dennis Duckworth. Holding the pack's flag is Charles Beckett, and polishing apples are Akela Larry Brown (a shoveller) and cub George Murray.



Blessed with glorious weather, 49 golfers drove, sliced, and putted their way through 18 holes at the Garson Golf Club during the annual Copper Cliff Athletic Association golf tournament. Chairman of the organizing committee, Jack Newell, came out on top with a low gross of 73 and claimed the Doran's trophy. Runners-up Hurlie Hreljack and Roy Maud came in with 74. Steve Ranich's low net of 70 won him the association trophy. All from the Copper Cliff Smelter, the foursome in the picture are (putting) Pat Riley, Stan Rogers, Glen Butcher and Ed Lacoste.



Gary Hall, coach of the Warehouse team, Copper Cliff Shift League champions, reviews line-ups with three of his players: shortstop Richard Gauvreau, left fielder Moe Correlli, and catcher Gerry Mills.



Town pitcher Gerry Ready (left) tried hard but lost the final game of the Copper Cliff Shift League's championships to Rene Gervais' Warehouse team. Warehouse won the best-of-five series by three games to one. Convenor Ray Frattini arranged a 10-team schedule during regular season play.

No. 1 electric furnace is important veteran

By Derek J. Wing

The world's leading producer of nickel, Inco also ranks among the world's major copper producers. Last year's deliveries of copper amounted to nearly three and a half million pounds, a quarter of which passed through the No. 1 electric arc furnace located in the Orford building at Copper Cliff. It deserves recognition.

Built in 1949, the 6,000 kilovolt-ampere (KVA) furnace handles high grade copper sulphide concentrate that is recovered from nickel-copper bessemer matte after grinding and selective flotation in the separation building. Furnace feed amounts to some 350 tons-per-day.

Measured inside the basic refractory brick from which it is constructed, the furnace is 19 feet long, 12 feet wide and seven feet deep. The self supporting 15-inch thick arched roof sits on water cooled copper skew back jackets. The floor is 27 inches thick, the walls 24 inches. The structure is braced by steel buckstays and adjustable tie rods.

Furnace feed is delivered to a ground level storage hopper by 60-ton side-dump railroad cars. A belt feeder and belt conveyors elevate the feed to two oscillating pan conveyors located at roof height over the side walls of the furnace. Six adjustable rotational gates in each pan maintain even distribu-

tion to the feed hoppers below. Reciprocating gate feeders inject the feed into the furnace.

Heat for maintaining a 36-inch deep 125-ton molten bath at a temperature of 2,250 degrees F is provided by the arcing of three 20-inch diameter graphite electrodes that are suspended above the furnace and pass through the refractory roof. Their bottom ends are about one inch above the surface of the bath.

Through oil cooled step-down transformers, a 33,000-volt supply is converted to 100 volts. Under load, the furnace draws a load of 6,000,000 watts (enough to support the requirements of a town the size of Copper Cliff). Temperatures at the tips of the electrodes run as high as 4,000 degrees F.

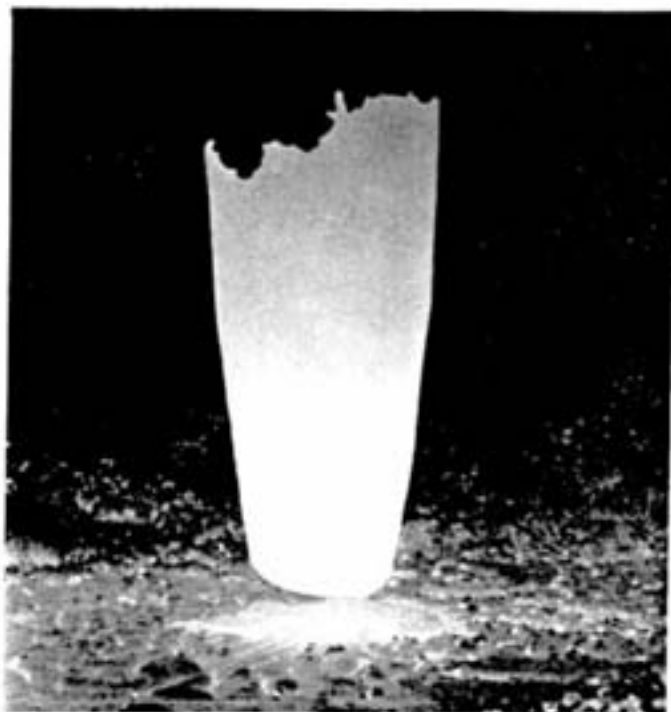
Located in the transformer room, amplydne generators react to fluctuating power demands which signal a required vertical adjustment of the decomposing electrodes and automatically raise or lower them to maintain correct arc length.

Electrodes are installed in six-foot sections and are burned away at a rate of one foot every three hours. Limited to a two-foot vertical movement, the water cooled electrode holding assembly is manually slipped every six hours.

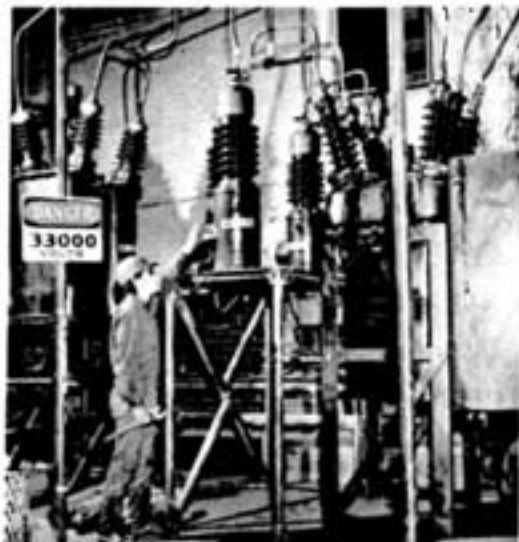
Two refractory lined launders are used to tap the furnace. One tap hole located close to the top



These are the furnace's three electrodes. Made of graphite, they extend down through the roof of the furnace to within one inch of the molten bath. The powerful electrical current they carry arcs between electrode tips and bath generating melting temperatures of close to 4,000 degrees F. As the anodes burn away they are lowered into the furnace and additional sections are added. Screwing a 6-foot long, 1,200-pound section into place are Dan Lewis and Joao DaSilva.



These transformers step down incoming 33,000 volt electrical power to a mere 100 volts, but by doing so step up 280 amps to 93,000 amps, providing a powerful punch of no less than 6,000,000 watts — enough power to keep the furnace bath at a sizzling temperature of about 2,250 degrees F, or support the requirements of a town with 4,000 residents. Instrument man Reg Hibi is seen with the equipment.



Left, looking into the furnace through an inspection port, this picture shows the white-hot tip of one of the three electrodes moments after power to the furnace was cut. The electrical arc that jumps between electrode and molten bath generates temperatures up to 4,000 degrees F.

of the bath is used twice a shift to skim slag, the other, some 10 inches lower, is opened five to six times a shift to tap copper sulphide matte. Both slag and matte are then transferred to the Orford building matte process converters for conversion to blister copper. Slag lined 66-cu. ft. capacity cupola pots are used for the transfer.

Furnace exhaust gas at 2,000

degrees F is diluted with sufficient free air to drop its temperature to about 300 degrees F before it is drawn to the main converter aisle flue by a 30,000-cfm fan.

Past the age of majority, the No. 1 electric arc furnace gets a well earned face-lift about once every 18 months when she's allowed to cool down for re-bricking.



A general view of the top of the No. 1 electric arc furnace in the Orford building, this picture clearly shows the cable and pulley mechanisms that support the furnace's three graphite electrodes. At right, the open uptake allows free air to dilute and cool exhaust gases from 2,000 to a handleable 300 degrees F. Tending one of the furnace's two oscillating pan feeders are Claude Ranger and Joe Chaj.



Furnace product, copper sulphide matte at a temperature of 2,250 degrees F., cascades down a refractory lined launder into a slag lined cupola pot. On the tapping platform are tapper Walter Prechotko and helper Roger Pigeau who is ready to stem the flow from the tap hole with a clay bud.



Located above the furnace, this is one of the two oscillating pan conveyors that drop concentrate into the furnace's loading hoppers. Conveyorman Joe Chaj is adjusting one of the six gates that maintain even distribution along the length of the furnace.



Furnace feed, copper sulphide concentrate is delivered in 60-ton slide-dump cars. Securing safety chains to the car prior to dumping the load into the furnace storage bins is conveyorman Bernard Maher.

Inside the furnace control centre console, electric furnace boss Ken Milner is manually controlling the vertical movement of an electrode holding assembly during the installation of a new section of electrode.



Golden wedding

Letters and telegrams from the Governor-General, the prime minister, and a scroll from the Ontario government, were among the many cards of good



wishes received by Norman and Orca Coopman when they celebrated their golden wedding anniversary on August 13.

Relatives and friends from Campbellford, Saskatchewan, Sherston, St. Thomas, Sudbury, Lively, King City, Midland, and Port McNicoll, helped mark the

1972 Inco reserved scholarships

Sons and daughters of Inco employees who wish to compete for these awards in 1972 should ensure they are presently enrolled in a full complement of subjects required for university entrance in 1972. Results of repeated courses do not qualify. It is also essential that the "General Application for Admission to University 1972" be completed, and that they participate in SACU and other achievement tests offered at their school.

event at the Coopman's home in Cardiff, Ontario.

Married in Stevensville, Ontario, they lived in Sherston, where Norman worked as a crane operator in the Port Colborne nickel refinery, until his transfer to Copper Cliff in 1933. Sudbury was the couple's home until his retirement in 1951.

Their family consists of one son and two daughters; nine grandchildren and one great-grandchild complete the family.

Inco film wins coveted award

"Shebandowan — a summer place" received an Etrog Award for the best public relations film at the 23rd presentation of the Canadian Film Awards, October 1 in Toronto.

The film describes International Nickel's efforts to develop a mine-mill complex at Lake Shebandowan in northwestern Ontario without disturbing the natural beauty of the area, a summer resort.

Two years ago, "Rye on the Rocks" won the Etrog Award in the same category for International Nickel. The award was designed by sculptor Sol Etrog, after whom it is named.

Both films were directed by Don Haldane of Westminster Films, Toronto, who produced the films for International Nickel.

Both Inco's prize-winners are available to the public from Association-Industrial Films, 333 Adelaide Street, Toronto.

Radio club

(Continued from page 2)

the airwaves, avoiding the sometimes waiting-line congestion of shortwave. Broadcasting on FM also results in unmatched clarity of transmission, he added. This is because an FM signal is received as clearly at its maximum range as it is very close to its transmission point.

In spite of FM's other features, however, its range is poor when both transmitter and receiver are at ground level. This is especially true in areas such as Sudbury with its hilly terrain.

Repeater boosts range

To overcome this problem, the club members built and installed a repeater. With an antenna 120 feet high atop a hill in the city, the repeater automatically receives and retransmits signals. The repeater has significantly increased the range of the club's equipment — members have raised Sudbury when travelling in Toronto, Timmins, and Manitoulin Island. A quarter these distances was the limit before.

In keeping with federal Ministry of Transport regulations, the repeater identifies itself automatically in Morse code after each signal. The wavelength assigned to the club is 146.94 megacycles and the repeater has its own call-sign, VE3RSR, the last three letters standing for "Sudbury Repeater System."

Appointments

The following appointments have been announced in the Ontario Division:

Copper Cliff

H. B. Fowler, assistant superintendent of mills;

M. J. Puro, superintendent, Froid-Stobie Mill;

G. A. Mitchell, superintendent, Copper Cliff Mill;

J. L. Gamey, assistant superintendent, Clarabelle Mill;

L. M. Bernard, assistant superintendent, Froid-Stobie Mill;

D. A. Huggins, superintendent, electrowinning department, copper refinery;

R. Moskalyk, assistant superintendent, separation and sintering department, Copper Cliff Smelter.

H. S. Banasuk, superintendent, Garson Mine. This assignment is during the absence, due to illness, of superintendent R. J. Ludgate.

E. H. Mulligan, manager, projects, engineering;

R. V. Griffiths, chief project engineer;

F. C. Svenson, chief construction engineer;

H. R. Lanz, chief estimator, engineering;

N. Santink, superintendent, services, engineering;

J. H. H. Smith, supervisor, cost control, engineering;

J. H. Holtby, superintendent, purchasing;

W. F. Campbell, superintendent, warehousing.

Port Colborne

James F. MacDonald, environmental control supervisor.

Smelter makes million manhours

The Copper Cliff Smelter surpassed the 1,000,000 safe man-hour mark October 2. "The achievement is that much more remarkable and satisfying when one considers the variety and complexity of smelter operations," John McCreedy, Ontario Division general manager and vice-president, commented.

Although the smelter often came close, this was the first time the 1,000,000 man-hour level was reached since January 1967. "This emphasizes the difficulty of the task and its achievement reflects the whole hearted co-operation and effort exerted by all employees in the smelter complex," Mr. McCreedy said.



Froid-Stobie and Froid millions

The inscription on the trophy reads: "Awarded to Art Pyne for being a safety conscious miner".

A driller at Froid Mine, Art won the trophy by being the first Froid employee to receive five decals during the Froid-Stobie Safety Decal Contest. Bearing the pertinent message "Safety is my Business", the decals can be seen on headgear in the picture. An original brainwave dreamed up by Froid-Stobie area safety supervisor, Stan Snider, the contest started last June. If an inspection of a working place found it to be up to defined safety standards, then a decal was awarded to the man or men involved. During the life of the contest, more than 700 decals were awarded at Froid. So far, more than 800 have been awarded at Stobie, but no one there yet has won five. The winner also must have been injury-free during the duration of the contest. Present when Art received his award were four miners on his shift who had reached the four decal stage. Seen are: driller Rollie Poulin, stope leader Frank Grenon, Froid safety supervisor Stan Foreman, driller Otto Wetzel, celebrity Art Pyne, Froid Mine superintendent Ted Flanagan, motorman Joe Proulx, and Art's shift boss Fred Spry. Going all out with respect to safety, Froid Mine worked 1,000,000 safe-man-hours between June 4 and September 10. Another commendable milestone was reached when the Froid-Stobie Mine complex reached the 1,000,000 mark on September 24. Their long run without a lost time accident started on August 4.



Black powder enthusiasts step back into past

What they lack in numbers, they more than make up with enthusiasm and knowledge—that sums up a small but dedicated group of shooters who prefer the challenge of old muzzle-loading guns and black powder ammunition. Last month, eight of them took a step back into the twilight zone of the past at an open shoot held on the Capreol Handgun Club's ranges.

No formal black powder gun club exists and there is no intention to form one. The enthusiasts get together about once a month during summer and fall to match shooting skills, try each other's guns, and trade information about the lore of the old weapons. Indoor black powder shooting during the winter is almost impossible because of the heavy choking smoke emitted by the guns, so occasional social evenings keep the group together. Among the enthusiasts are Incoites Larry Marcotte (Copper Cliff stores), who prefers percussion handguns; Al Scrutin (Stobie engineering), who has a percussion rifle; and John

Taylor (staff personnel), who owns muskets and handguns.

Behind their interest in old weapons is a conviction that with modern guns, sights and ammunition, the skill in shooting is lost. On the other hand, black powder shooting, whether musket or handgun, requires a good marksman to overcome the idio-

Below, Brad Coyles, organizer of the Capreol shoot, and Al Scrutin (Stobie engineering) use "buffalo sticks" to fire from a sitting position at their targets. Buffalo hunters used this type of crude gun rest when firing at the animals from great distances on the open prairies.



John Taylor (staff personnel) loads his replica Kentucky flintlock with powder. Next step is to drop in a ball, and then ram a patch down the barrel to hold the combination. The Kentucky replica costs about \$140; an original in good shape will fetch \$600 to \$700.



Shooting offhand, Cam Pitkethly fires his original Mator percussion rifle. A .32 calibre piece, it was made in Canada about 1860 and like most Canadian guns is quite rare. His was the only "original" gun being fired at the Capreol range.

synchronies of his weapon to achieve a good score. Such peculiarities include the choking smoke that follows each shot; the time lag between the hammer of a flintlock striking the powder pan and igniting the powder to fire the weapon; the crude, almost non-existent, iron notch sights; the stiff triggers percussion handguns need to land a wallop on the caps to set off the powder; and the muzzle-heaviness of many of the old guns, making the balance of many modern guns a luxury.

Most of the black-powder shooters are also collectors. Antique weapons are classed as those over 100 years old and are good investments, although few enthusiasts think of them that way. Because of the tremendous interest in old guns created by collectors in the United States, asking prices for

old guns appreciate about 15 per cent a year.

The Colt .45, the "gun that won the west", almost qualifies as an antique: first introduced in 1873, gunslingers bought them for \$13 or \$14; now \$200 won't even buy one of the reproductions Colt makes for enthusiasts. Very definitely classed as antiques are highly-priced Kentucky flintlocks, worth close to \$700 if original; flintlock pistols of all types; Colt and Remington percussion revolvers; the Sharps Buffalo rifle; and the Hudson's Bay fur trading muskets.

Few collectors fire their precious guns, however, because of the danger of corrosion, fatigue or age hardening which could cause the breech or barrel to burst with fatal results.

Rather than fire their valuable antiques, most shooters buy

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Retired on Inco Pension

WITH 20 OR MORE YEARS OF SERVICE

ALF MENARD

New pensioner Alf Menard was born at Bonfield near North Bay. He started with the Company in 1943 after three years' gold mining in northeastern Ontario. Alf was a timberman at Garson Mine where his son and son-in-law also work. Roger Menard is a timberman like his dad and Clarence McNamee, married to Alf's



Mr. and Mrs. Menard

daughter, Claudette, is a motorman. Another daughter, Georgette, is married to Don Pagnutti, a 1st class garage mechanic at the Clarabelle Open Pit.

Alf's marriage to a home town girl, Cecile Landry, took place in 1935. They were blessed with five children and have 13 grandchildren to date.

The Menards are living in Val Caron where Alf enjoys gardening and woodwork. Although slowed down by a heart condition, he feels fine as long as he takes it easy.

FRANK DELUCA

Frank Deluca was born in the town of Villa St. Lucia in Italy in 1906. In 1924, he emigrated



Mr. and Mrs. Deluca

to Canada and joined Inco for the first time. Leaving Inco a year later, he worked on several construction projects in Port Colborne and in Timmins. After helping to build the local theatre there, he stayed on as projectionist and still has his operator's license.

While in Timmins, Frank met and married Evelyn Merle Howe. They have two sons and a daughter; son Danny is presently working in the electronic refinery. The Delucas have three grandchildren.

Frank returned to Port Colborne in 1947 and was rehired at Inco. He alternated between

the leaching, calcining and sintering departments and was a crane operator in the anode department when he retired.

After 24 years' service, Frank said he is going to take it easy and concentrate on his gardening.

DOUG HEWITT

Doug Hewitt was born near Saskatoon and after working with his farming parents and serving overseas, he started with Inco in 1947 at Murray. He later broke his service but returned again to Murray in 1951.

Ferne Vickell, from the Moose Jaw, Saskatchewan area, became Doug's wife in Sudbury in 1947.



Mr. and Mrs. Hewitt

They have three children and seven grandchildren.

Doug enjoys gardening at his Sudbury home along with reading and television.

The Hewitts plan to maintain their summer home at Spanish, west of Sudbury, and will winter in Florida.

JACK McLENNAN

Maintenance general foreman at the Creighton No. 5 Mine, Jack McLennan started with Inco in 1934 at the Copper Cliff Smel-



Mr. and Mrs. McLennan

ter and transferred to Creighton in 1959. Jack was born in Toronto and before coming to the Company he did electrical contracting work in Niagara Falls for five years.

It was also at Niagara that he married Jenny Singleton in 1934. Mrs. McLennan was born in Yorkshire, England, but moved to Canada as a girl of 10. They have three children and six grandchildren.

The McLennans plan to travel to Florida and perhaps to Western Canada but will still call home the house they have just completed in Lively.

DAN McCOOL

A maintenance electrician 1st class, Dan McCool was shift electrician in the loco shop in Copper Cliff from 1946 until his retirement.

Dan was born in Sudbury and was a commercial traveller between the Soo and Mattawa before joining Inco. He married Rita Mimeault in Sudbury in 1939. Mrs. McCool was originally from Sturgeon Falls. They have four children and four grandchildren.

The McCools live in Sudbury. Dan enjoys gardening and tinkering around the house.



Dan McCool

MATTI LAAKSO

Matti Laakso's career at Inco spans a lot of years and unfolds at five of the Company's mines. He started the first time in 1929

at the Frood, and transferred in 1934 to Creighton where he worked until 1937 when he decided to leave the Company to try full-time farming. He returned in 1950 to Crean Hill and later worked at Frood Open Pit, Creighton, and Levack before returning to Crean Hill in 1964 for the rest of his service.

Matti was born in Finland, as was Lyydi Karvonen, the girl he married in Sudbury in 1931. They have four children and seven grandchildren. Their daughter, Anni, is married to Walter Ranta, a 2nd class carpenter at Creighton No. 5 Mine.

Matti and his wife live on a farm near Whitefish, near where Matti enjoys good hunting and fishing.



Mrs. Laakso

EWART WRIGHT

Ewart Wright, better known as Bill, has had a long association with the Company, 48 years to be exact.

His father, William, worked with the Mond Nickel Company



Mr. and Mrs. Wright

in its smelters at Victoria Mines and later Coniston.

Bill, Jr., was born at Victoria Mines and started with the Company in 1922 doing electrical maintenance work at Coniston Smelter. In 1932 he transferred to Copper Cliff to work in the transportation department, but in 1955 moved over to the accounting department at Frood and then Murray Mine where he was timekeeper.

He married Clara Guimond in Mattawa in 1934. They have three children and nine grandchildren.

Enjoying good health, Bill fishes and hunts near the Wright's Ministik Lake cottage. A tent-trailer trip to the west coast and Alaska is under consideration for next year. The Wrights plan to remain in Sudbury.

STEVEN BOROS

Retiring after 29 years with the Company, Port Colborne's Steve



Mr. and Mrs. Boros

Boros said he'll keep busy looking after his garden and setting up his own woodworking shop.

Born in 1906 in Hungary, he made custom-made shoes until



Some of Matti's former workmates gathered around when divisional foreman, Elmer Manninen, presented the popular miner with a wallet and a gift certificate for a big chair. Keith Henderson, left, the area superintendent for Totten and Crean Hill Mines, was also on hand to wish him well.

he left for Canada in 1929 to join his sister in Port Colborne. Jobs were scarce at that time, Steve recalled, but his trade as a shoemaker came in handy and he obtained employment at a local shoe company where he remained for over 11 years.

In 1942, deciding it was time for a change, Steve joined Inco in the calcining and sintering departments. After five years, he moved to the yard department as a freight handler and trackman, finally transferring to the mechanical department.

While at a dance in 1932, Steve met Martina Karoly and after a whirlwind courtship, they were wed. Both their children have married and a total of eight grandchildren complete the family.

BLONDY MOYLE

If any of Blondy Moyle's four grandchildren pick up a bruise or cut during a visit to Grandpa's and Grandma's in Creighton, there should be no cause for alarm: for after 25 years as a first aid man at Creighton, Blondy has had plenty of experience with swabs and iodine.

Blondy was born in Quyon, Quebec, near Hull and started with the Company in 1937. All his Inco years were spent at Creighton.

Married to a Creighton girl, Joyce Simpson, in 1942, Blondy is the father of five children. Son Tom is a 1st class maintenance electrician at Creighton No. 5 Mine. Mrs. Moyle's father, the late Hugh Simpson, was a carpenter at Creighton for 30 years.

Blondy plans to spend a lot of time fishing and hunting. The Moyles will remain in Creighton.

HERVE BERTRAND

It's no great surprise that Herve Bertrand plans to spend a lot of his time in retirement tending the garden at the Bertrand residence in Sudbury. Herve spent the first 25 years of his life on his father's farm near the now abandoned

They have a family of seven children.

"I'm enjoying my retirement but I sure miss all the boys on the job," remarked Herve at the end of his interview with the Triangle.

ALFRED PERRIER

"I'm under warranty y'know; I'm still good for 50,000 miles." Alfred "Fred" Perrier was sum-



Mr. and Mrs. Perrier

ming up the state of his health at the beginning of his Company pension.

Fred was born in Chelmsford and started with Inco in 1937. He worked in the copper refinery throughout his Company service as a welder in the plate shop. He spent five years in Niagara Falls as an iron worker before coming to Inco.

Edesse Therrien became Fred's wife in 1934 at Espanola; Mrs. Perrier was born in St. Charles but grew up in Espanola. They have one child and one grandchild.

The Perriers live in Sudbury but they spend a lot of their time at the cottage Fred built on the French River 16 years ago. Like many pensioners, he counts fishing and hunting as two of his favorite pastimes.

JOHN JUUSOLA

Travellers who enjoy the comfort of the "Polar Bear Express", Ontario Northland's popular excursion train between Cochrane and Moosonee in Northern On-



Mr. and Mrs. Juusola

tario, owe a vote of thanks to people like John Juusola, whose pre-Inco days saw him working on the construction of that lonely 185-mile stretch of track.

John was born in Finland and came to Canada in 1930. Starting with Inco in 1934 and finally again in 1939, he worked on shaft sinking at Levack, Murray, Creighton, Garson, and Stobie Mines. In spite of John's retirement, the family name is still active at Inco as one of his two children recently joined the Company: Dr. Jack Juusola is a project leader with the process technology department at Copper Cliff.

John's wife is the former



Several of Dick Pella's associates gathered at the crushing plant to present the popular worker with a wallet and a wad of money. Shift boss "Rosie" Roseborough did the honors during Dick's last shift. On the extreme right is the late E. H. "Cappy" Capstick, then superintendent of the Copper Cliff Mill.

DICK PELLA

Dick Pella has shut down the big crusher for the last time calling an end to this Company associa-



Mrs. Pella

tion that lasted 37 years. Dick started with Inco in 1933 working for the late Alex McIntyre on the pole lines out of Copper Cliff. He transferred to the receiving bins in 1934 and from 1940 onwards he was in the crushing plant. He came to Canada from Italy in 1922.

Working first in Fort William, Dick found a wife in Genocffa Bartolucci. They were married at Fort William in 1930, and have a family of five children and six grandchildren. Their son Dennis works in the Copper Cliff Smelter FBR building, and their daughter Iole is married to nickel converter puncher Mike Luciw.

The Pellas live in Sudbury where Dick enjoys playing the accordion and tending to his six pet canaries. Regular visits to their son's cottage at Espanola rounds out their recreations.

GEORGE GRAVELLE

George Gravelle is calling it a day with the Company with 35 years' service to his credit.



Mr. and Mrs. Gravelle

George was born at Rockland near Ottawa. He started with Inco in 1936 on the Copper Cliff

(Continued on Page 16)



Blondy Moyle



Mr. and Mrs. Bertrand

town of Victoria Mines, west of Sudbury. Herve's decision to join Inco in 1947 was also preceded by five years' work with a diamond-drilling company. All his Inco service was in the Copper Cliff Smelter nickel reverbs department.

It was also in 1947 that he married a Hanmer girl, Lucille Tremblay, in her home town.

FRED THORNTON

Like many young men of his era, Fred Thornton started work at a very early age, 12 to be exact.



Mr. and Mrs. Thornton

He started with the CNR doing section work around Parry Sound where he grew up; he was born in Hagar.

Fred joined Inco in 1936 at Copper Cliff, left the Company in 1942, but then returned in 1946 and accumulated 24 years non-stop. Much of his service was spent as a 1st class rigger at Frood Mine.

His wife, the former Anne Carpenter, was born in the northern Alberta village of Czar, but Timmins became her home town at age 12. They were married in Sudbury in 1948, and have three children and nine grandchildren. Their daughter, Marlene, is married to Levack Mine stope leader Bob Langstaff.

The Thorntons have been living in Sudbury for many years but will be changing their address to Arizona in 1972.

Retired on Inco Pension

WITH 20 OR MORE YEARS OF SERVICE

(Continued from Page 15)

Smelter's nickel reverbs and, after 20 years in that department, he was transferred to the cottrells where he was an operator for the last 15 years.

Married in 1931 to Cecile Du-beau, George is the father of six and the grandfather of 15. Son Gerry is a switchman at Stobie Mine.

The Gravelles will split their time between their home in Azilda and their summer cottage on the French River. George's interests include televised hockey, snowmobiling and ice-fishing. They plan to spend this winter in Florida.

LIMPIO TOMASSINI

Limpio Tomassini, known as "Happy", had a long Company association that started back in 1926 at the Creighton rockhouse



Mr. and Mrs. Tomassini

and, except for a two-year stint at Levack, all his service was spent at Creighton. Twelve years a crusherman, he also spent eight years on ventilation assignments.

Happy was born in Copper Cliff, but grew up in Sellwood, the now-abandoned community near Capreol. He was married in Italy to Gennarina Pernici and they have one child and two grandchildren.

The Tomassinis live on the outskirts of Lively. As one of the founding members of the Creighton-Lively Conservation Club, Happy plans to catch up on some hunting and fishing. He also plans to return to his hobby of rock collecting.

MANSFORD BROOKS

"Among other things, Inco offered security and I liked that," reflected Mans Brooks about why he started with Inco in 1935.



Mr. and Mrs. Brooks

Mans was born in Sturgeon Falls, but grew up in Orillia and Belleville. He worked on the railroad for six years prior to coming to

the Company's Copper Cliff loco shop. In 1941, he transferred to the electrical department and was stationed at Murray Mine for the rest of his service.

A year after coming to Inco, Mans married Cora Tees in Sturgeon Falls. Born in Saskatchewan, Mrs. Brooks grew up in Bruce Mines just east of the Soo. They have three children and five grandchildren. Mrs. Brooks taught school in the Val Caron area for 16 years. Their home is in Sudbury.

ORVILLE COONEY

Orville Cooney had a good background for a mechanical job at Inco: before joining the Company at Copper Cliff in 1937, he



Mr. and Mrs. Cooney

worked for several years in his father's blacksmith shop in the Ottawa Valley town of Quyon, Quebec. He was born at nearby Fort Coulonge.

Orville left the Company in 1941 but returned in 1947. A miscellaneous fitter, he worked throughout the Copper Cliff Smelter, and since 1961, in the fluid roaster and FBR extension. He was a 1st class maintenance mechanic for the last 20 years.

Married in Sudbury to Pina Doyle, he is the father of 10 children. Mrs. Cooney is from Campbellton, New Brunswick. They also have eight grandchildren. Their daughter, Barbara, is the wife of Les Doyle, a 1st class locomotive and shovel fitter, who works at Clarabelle Open Pit.

The Cooneys live in Azilda, and plan to visit the Ottawa Valley and western Canada.

STU DEMPSEY

Stu Dempsey had a lot of miles under his belt before joining Inco at the Copper Cliff blacksmith shop in 1941. He drove a truck in southern Ontario for 20 years after qualifying for his driver's permit at age 14. Stu was born



Stu Dempsey

in London, England, and came to Canada as an infant in 1907.

At Inco, he worked as a mechanical leader from 1947 to 1959 at the Copper Cliff Smelter sinter plant, and until retirement as a 1st class mainten-

ance mechanic at the Copper Cliff Mill.

His first marriage took place in Toronto in 1932 when he married Marie St. Germain. Mrs. Dempsey died in 1963. He remarried a year later, choosing Della Le-cour as his wife.

Stu plans to take a job locally as a security guard as soon as he recovers from an upcoming session with the surgeons. The Dempseys live in Sudbury.

FENTON CARSON

Communities look to couples like Fenton Carson and his wife, Kathleen, as examples of dedicated involvement. Fenton served on the Neelon school board for six years, three of them as chairman. Mrs. Carson served in



Mr. and Mrs. Carson

various school board positions for 20 years, was the first president of the Council of Women in Sudbury and is now its provincial vice-chairman, and is a past president of the Business and Professional Women's Club. She was also UNICEF chairman for Sudbury for five years and is considered instrumental in bringing a day nursery to Sudbury (the nursery will open in early 1972).

Fenton was born in Ottawa and worked there for six years as a carpenter before joining Inco in 1935. He was a maintenance foreman in the Copper Cliff carpenter shop. During the war years, he served with the RCAF, and was stationed in Newfoundland.

His wife, the former Kathleen Sullivan, was born in London, England, and came to Canada in 1921. They were married in Sudbury in 1935 and have a family of three.

Both of the couple enjoy golf: their completely equipped travel trailer will be their home in Texas this coming winter. The Carsons are presently living in Sudbury, but would like to settle in Florida.

ARMAND BOUCHARD

Armand Bouchard and his wife, Eila, won't spend all of this winter in Sudbury; they plan to holiday away from the blowing snow in the Bahamas. Back home in Sudbury for our comfortable



Mr. and Mrs. Bouchard

summers the Bouchards plan to do some tent-travelling and fishing. Armand was born in Espanola. Work in paper mills in his home town, and at Terrace Bay in northwestern Ontario preceded his start with Inco in 1950 at Stobie Mine. Most of his service was spent as a shift boss.

He married Eila Wiita in Wawa in 1949. Mrs. Bouchard was born in Creighton. They have three children.

BILL BRADFORD

Bill Bradford's colorful working career started in his birthplace of Birmingham, England, where he mined coal for seven years. Diamond and silver mining in Africa and India were preceded by three years of semi-pro football, as inside left for the London Corinthians. A competitive pool player, he was defeated in the final championship match for England in 1938. His Army service overseas terminated on the infamous Dunkirk beaches.

Bill started in 1949 at Copper Cliff, but a year later he went to Coniston Smelter. He was the sinter plant foreman for the last four years. "I appreciate my association with Inco; it has resulted in a lot of security for me, and for my family," remarked the well-known Coniston retiree.

Married in 1953 in Sault Ste. Marie to Jean Bennett, Bill is the father of one boy. Mrs. Bradford, born in Schreiber, will retire next January after 32 years' service with Bell Telephone. She is an instructor in commercial training in the Sudbury office.

The Bradfords are living in Sudbury but will move to southern Ontario in early 1972.

Bill Bradford shows his wife, Jean, the electric shaver he received from his workmates. Some 150 couples attended the dinner party given in honor of the Bradfords at the Club Allegri in Coniston.



Top drivers compete in rally organized by Sudbury club

Why would 42 young motorists give up a weekend to sample 542 miles of some of the worst roads in the Nickel Region and Rainbow Country? Some of Ontario's top car rally drivers and navigators did last month when they entered the 15th annual Manitoulin Car Rally, organized by Jack Van Delden (Inco special projects) of the Sudbury Sports and Light Car Club (SSLCC). Twenty-one cars, and their two-man crews, from Thunder Bay, Woodstock, Guelph, London, Toronto, Hamilton, and locally, competed in the two-day event. Starting at Pawson's garage in New Sudbury, the rally included an overnight stop in Providence Bay on the island, before finishing at the Sheraton-Caswell.

Recognized as championship event

The 1971 version of the Manitoulin Rally was also the first to be recognized as a championship event by the rally's governing body, the Ontario region of the Canadian Automobile Sport Club. Twelve rallies are chosen from among the hundreds run each year throughout the province, to be the contests selected to determine the all-Ontario championship team. The rallies are based on a 10-point system with the top crew winning 10, second place earning nine points, and the tenth team only one championship point. At the end of the year, each crew's seven best rallies are counted, and the team with the highest total out of 70, is crowned provincial champion.

Rallying has been described as a Sunday drive with a little excitement. The cars travel at speeds 10 per cent below the posted limit around a specific route. The crews follow directions prepared by the organizers and penalty points are assessed for arriving early or late at checkpoints. The crew with the least points at the end wins.

As in most hobbies, rallying can be as expensive as you want to make it. Newcomers can get by with paper, pencil, a stopwatch, and their car odometer. The enthusiasts and professional crews modify their cars with external odometer cables, which are more accurate than the stock cables supplied with the cars; mechanical or electrical time/distance computers which can cost several hundred dollars; for better night visibility on rough back roads, most add extra headlights, which gives their cars a goggle-eyed look; and an extensive emergency kit including flares, first aid supplies, a tool kit and commonly-used spare parts. Breakdowns cost penalty points, and the crews have to be prepared to tackle anything from a blow-out, and minor mechanical problems, to retrieving their car from a ditch.

Novices triumph over experts

For the Manitoulin Rally, local crews were divided into novice and expert categories. Winning the SSLCC novice trophy were



Who says rallying isn't a horse race? These nags wouldn't agree as they keep pace with John Howard's Datsun on a back road north of McKerrrow. Despite the "traffic", the crew lost only one point at the next checkpoint, barely a quarter mile from this action.



Oh, the perils of rallying. Don MacKinnon (purchasing) seems to be thinking. Dave Wilton, his navigator, was replacing for the third time on the first leg the front wheel odometer drive cable. Despite this delay, Don managed to pick up time on the road, and the duo didn't lose any points at the next checkpoint.



Don Nelson (general engineering) hustles to clear the checkpoint. Each navigator got a sticker from Al Parsons, in charge of that point, which indicated the actual time the car arrived at the point, compared to its scheduled time.



Viv MacIntosh

Ron Fielding and Ron Brooksbank (Copper Cliff Nickel Refinery) pull out of Pawson's at the start of the rally. The Sudbury Police traffic department stationed a constable on LaSalle to stop traffic as each car departed from the official start point.

Roger Mayhew and Karl Biro, in Roger's Peugeot. They took home the annual novice trophy and mugs, and various merchandise certificates from local merchants. They also beat the experts and were the highest-placing Sudbury crew. Best of the Sudbury "experts" were Don McKinnon (Copper Cliff purchasing) and David Wilton in a Toyota. They won merchandise certificates. Visiting Torontonians won the top two places: Overall winners were Al Bolton and Terry Epp, his navigator, in a Renault; while the runners-up were Bob Lindquist and navigator John Bellefleur in a Datsun.

Behind-the-scenes, another 70 people, including two dozen Incoites, gave up their weekends to serve at checkpoints, host overnight guests from out-of-town, help scrutineering and totalling scores.

Inco's own drop-in centre hires people



A view of the new bright and airy waiting room and reception area in the employment office.

Multi-colored chairs, contrasting wall-paint, plenty of reading material (including the Triangle, of course),

and background music, help make waiting for interviews or final placement as relaxing as possible.

Same day service—that's what the newly renovated Sudbury employment office is offering new recruits to Inco's hourly workforce. Whether he's been invited to apply by one of the employment recruiters on a "sweep" through northern or southern Ontario, or whether the applicant just walks in the door, the goal is the same. "The idea is that a man coming in off the bus in the morning, can fill out an application, have a medical, and, if he qualifies, get his work papers later the same day," explained Dave Chapman, supervisor of hourly employment recruiting. When he reports for work on his first shift the next day, the new employee is already on the company payroll.

For all concerned it means savings in time and money and less embarrassment for a candidate who can't meet Inco's employment requirements. By streamlining the screening process, Inco saves money and at the same time gets those who are successful into its plants and mines quicker. For the recruit, it's a quicker answer, yes or no, which means less cost to him in personal time and money, especially if he's arrived from out-of-town on his own initiative.

The introduction of this speedier hiring process was made possible by the changes made to the downtown offices located in the Inco Club on Froid Road.

Besides comfortable waiting rooms with relaxing background music, the entire office was reorganized to make a smoother flow of applicants possible, with a minimum of confusion. Interviews and the processing of applications remained where they've been for the past 17 years, but the medical staff moved to the other wing of the building. The extra space is used for more interviewing offices and reception area.

Two more waiting rooms, dressing rooms, and larger medical facilities are contained on the other side. Inco's spine and chest X-rays are also taken there. Two new features are an electronic "audio box" for hearing tests, and in-house reading of X-rays.

Key to overall quick service is a new automated X-ray film processor. This saves transferring the exposed films to Copper Cliff where previously they were developed and read. As efficiently as this was done in the past, it usually meant at least one day's suspenseful wait for a candidate. Now, not only are the X-rays processed on-the-spot in only 90 seconds, but they are interpreted in the same offices too.

Open at 8 a.m. Monday to Friday, the team of three employment officers, Gary Foy, Walter Chornenky, and Roy Carlyle, are kept busy interviewing almost non-stop throughout the day. The offices remain open during lunch hour and applications can be filled then. Another innovation is night-time hours. Introduced on an experimental basis for the first time last month, the employment centre was open one night every week. This was to help people who would like to work for Inco, but who just couldn't take time off from their present daytime jobs to come and apply, Dave Chapman said.



Linda Demkiw, an X-ray technician, pulls a just-developed X-ray plate from the rapid film processor, 90 seconds after it was inserted into the machine from the darkroom side. Linda is the daughter of Froid Mine shaft inspector leader Billy Demkiw.



Jim Simpson, now employed as a miner in Creighton, is given a vision test by employment agent Vern Tupley, in one of the new offices. Jim is reading an eye chart, which Vern changes by twisting the dial on the side of the machine.

Richard McFarland gets his start-to-work papers from Roy Carlyle, industrial relations and personnel assistant. Interviewed and hired that day, Richard was told to report to the Creighton Mine personnel office the next morning.



Assistant X-ray technician John Dandenault briefed employee prospect Jocelyn Corriveau, from Gaspé, Quebec, on what to expect and is about to conduct a hearing test. The two electronic "audio boxes" were added during the renovations. John dials a high-pitched whine into either headphone to determine the prospect's hearing range.

Black powder enthusiasts

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replica guns. Costing \$40 to \$240, depending on the handwork and the type of gun, these are usually identical in all respects to the older guns, with the exception of modern steel. The cheapest replicas are made in Spain, but others can be purchased in Belgium or the United States. Black powder can be bought at most sporting goods stores, especially those that cater to handloaders, and costs \$2-\$3 a pound. Add a bullet or ball mould and a small heating device to melt lead and an enthusiast is in business. Instead of the rawhide once used as wadding to hold the bullet and powder in the breech, old sheets are preferred for economy's sake by most twentieth century "Daniel Boones".

There's no one source of guns

in Canada. In the United States, there are quite a few antique gun shops, where collectors can purchase good pieces at fair prices, or get appraisals on guns they want to sell. One such U.S. shop has over 3,000 rare guns.

Most antique gun "finds" are discovered by collectors' friends or relatives in basements, barns, or the bottoms of old trunks. The classified pages of newspapers also turn up some surprising finds for the patient collector. This usually occurs when another collector decides to sell out, either to specialize in one type of gun, or to get his money back.

Collectors weep at the thought of people who keep guns they don't need or appreciate for sentiment's sake. For example, two extremely rare Kentucky flintlock squirrel guns, in mint condition, are known to be languishing in a barn in Vermont. They've been left there by two elderly spinster sisters who maintain that their grandfather put them there in case of Indian attack and there they are going to stay . . . just in case!

Creighton gets Boyd as new plant IR rep

Mike Boyd has been named plant industrial relations representative for the Creighton Mine complex.



The plant IR rep maintains close contact with employees and Union stewards to assist in solving any problems before they reach the grievance stage. He interprets, for both employees and supervision, the Collective Bargaining Agreement and the Company's industrial relations and personnel policies.

Dave Chapman, supervisor of hourly recruitment, discusses a new application with stenographer Mrs. Judy McKinnon. On



Judy's desk is the radio/tape player which pipes music throughout the building. All mines and plants send their monthly manpower requirements to the Copper Cliff industrial relations department. There, the Company's overall manpower requirements are assessed and Dave learns what his next recruiting objective is.



"We have a good ton of Inco brawn on our side this year and we're very glad to have them," said Spartan coach Sid Forster. Front row left to right are quarterback Bob Jelenic, a student who worked in the Creighton No. 3 Mine time office; defensive halfback Helmut Malmiste, a process assistant in the copper refinery; defensive halfback Alme Dimatteo, a student who worked in the purchasing department's count group; offensive end Bruce Brydges, a driller at Froid; middle linebacker Rudy Reschke, a graduate engineer at Copper Cliff. In the back row are defensive lineman Gerry Skyba from Copper Cliff North Mine; defensive halfback Larry di Pasquale, a driller at Creighton No. 5 Mine; defensive lineman Tom Hywarren, storeman at Stobie Mine warehouse; defensive halfback Gord Evans, machinist 2nd class at Froid Mine; fullback Larry Burridge, a miner at Creighton No. 5, and assistant coach Rene "Boo Boo" Brisebois, a slope leader at Garson Mine.

Incoites help Spartans cinch first place finish

The Sudbury Spartans, last year's champions in the four-team Northern Football Conference, have again clinched first place. At presstime, one game remained in the Spartan's schedule, but their six-wins-and-one-loss record put them out of reach of the second place Kirkland Lake Kougars, whose four wins were offset by three losses. Always tough competition for the league, this season was the Spartan's 20th since their formation.

Spartans' only loss was to their arch rivals, the third place North Bay Ticats who squeezed a 12-6 win out of the Spartans in Sudbury. North Bay fullback Kurt Rush still leads the league in most yards for a pass receiver although he bowed out of the

North Bay lineup early in the schedule.

Coach Sid Forster, in his fifth season with the club, again received some spectacular performances from individual Spartans. Tough veteran defender John Taus kept a wide eye open and hauled down six pass interceptions, two of them for touchdowns, setting a new league record; and in 86 carries, back Ray Owens leads the league yards rushing department with 491 yards.

Crowds have shown an improvement over past years. Paid attendance over 500 was not uncommon showing an upswing in football interest in the area. Playing conditions at Queen's Athletic Field, improved due to a spring sod replacement program, are considered a factor in en-



Defensive halfback Gord Evans shows the kind of ball-carrying ability that won him the Spartans' most-valuable-player award for the fourth consecutive time last season. In this picture, Gord found a hole in the North Bay Ticats' defense and made a first down. Spartans won this game 15-12 in the first encounter of the season.

couraging a crowd-drawing calibre of play.

Playoffs will take place in late October. The Spartans have a bye and are likely to meet the Kirkland Lake Kougars

in a two-game total points series. Spartans may be without the services of end Ken Shields, hurt in a game against North Bay, but generally they're ready to defend their championship status.

Vintage year for grapes



Mr. and Mrs. Nick Pezzetta of 485 Lorne Street in Sudbury grew this luscious crop of black grapes on the wall of their house facing a scant 15 feet from the roaring traffic on that busy thoroughfare. Their three-year-old vine grew from an 18-inch cutting. An Inco pensioner, Nick was a skip-tender prior to his retirement from Creighton in 1965.

Thwarted by extreme winter colds, Val Therese gardener Walter Klenapple had to wait four years for his white grape vines to bear fruit. "Last winter's heavy snows helped to insulate them," remarked the champion gardener who has taken the award for the best garden two years running in the Val Caron Horticultural Society show. Walter is a conveyorman on the Copper Cliff Smelter flash furnace.



"If you want to grow grapes," said Frank Shepherd as he snipped a bunch from the four-year-old vine in his garden on Redfern Street in Sudbury, "you have to shelter the vine from those chilly north winds and keep it well covered up until late spring." His vine was in blossom in late May. A construction leader at Froid Mine, Frank started with Inco at Leveck in 1926, and has worked underground since then. He was 61 last August.