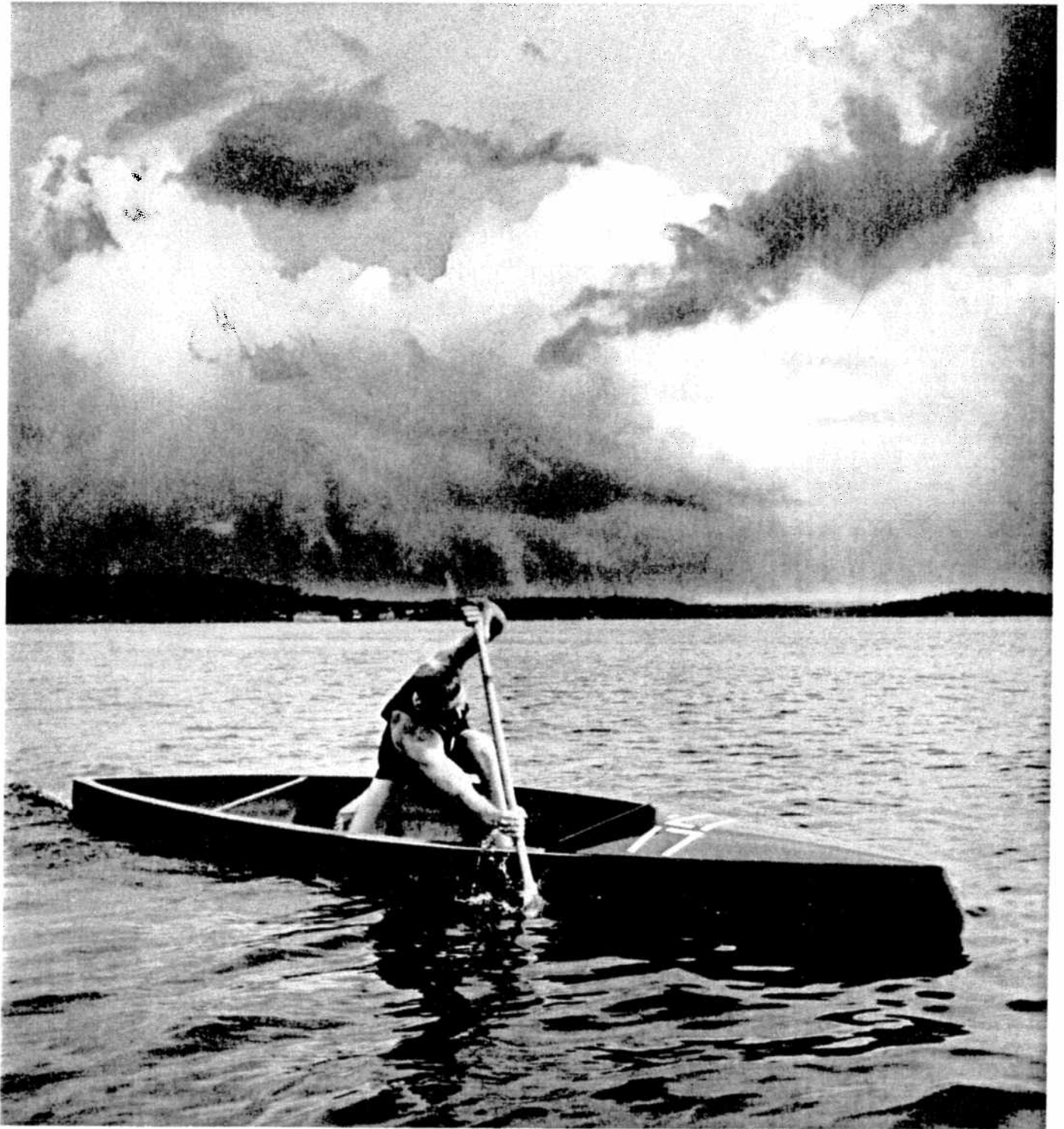




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NUMBER 6



Don Stringer of Canada

(STORY ON PAGE 5)



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Don M. Dunbar, Editor.  
Editorial Office Copper Cliff, Ont.

## Wide Variety in Assignments of D&R Department

The men of Inco who travel far and wide helping industry solve its day-by-day metallurgical problems, or work with the advance guard on the scientific frontiers fashioning metals to measure for the world of tomorrow, were welcome visitors at Copper Cliff this month.

Elsewhere in this issue is an account of their tour of the operations, which was as much a pleasure to their hosts as it was to them. Their comings and goings were regarded with unconcealed interest by the rank and file of the employees who chanced to be nearby, and who observed with relief that this seldom-seen branch of the great Inco family is not composed of frigid intellectuals from outer space, but is just a group of regular guys who look as if they would make first-class friends and neighbors.

The Triangle asked their leader, Frank LaQue, who is a vice-president of The International Nickel Company, Inc., in addition to being manager of the development and research division, to state a few recent examples of the work they do. His reply, which follows, gives a good idea of the far reach of their activities, and the imagination and technical know-how they must come up with, as architects of industrial progress:

### Offshore Radar Warning

An engineering firm called upon to design the so-called "Texas towers" being used in the U.S.A. offshore radar warning system was helped in choosing the best way to protect these structures from corrosion in the several zones from below the mud line, through the sea water, the tidal zone and splash zones up into the salt air.

Inco corrosion engineers recommended the several protective systems being used, including Monel clad steel for the critical tidal and splash zones where corrosion is most severe. Inco mechanical and welding engineers advised on the fabrication practices that were used.

### Ships to Carry Gas

There is growing interest in the transportation of liquefied petroleum gases, such as butane and propane from the Middle East to European ports, for use as a fuel. Ships to carry these products must have tanks or compartments able to hold the liquefied gases at sub-zero temperatures. They must be built of materials that can be fabricated readily and which will not be brittle at the low temperatures.

Inco engineers are being con-



*Nickel Park, Copper Cliff, September, 1956*

sulted on the materials to be used which could be 9% nickel steel or stainless steel containing about 8% nickel. Inco research has developed special welding electrodes that will be required in the fabrication of such vessels, particularly where it is necessary to make strong tough welds between dissimilar metals.

### Better Gas Turbines

To be economical, it is necessary for industrial gas turbines to use a low grade fuel oil which frequently contains substantial amounts of corrosive impurities such as vanadium oxide, sulphur and salt water. The products of combustion of such fuels are very destructive to the parts of the turbines that operate at high temperatures.

Inco engineers have been working on this problem in such ways as developing more corrosion resistant alloys, treating the fuel to inhibit attack by the corrosive chemicals, and even exploring the possibility of using platinum as a protective coating for the turbine blades.

### Tougher Grinding Materials

In the ore and cement grinding industries nickel-alloyed chilled iron — Ni-Hard — is being developed as the most economical material for grinding balls and mill liners. Inco foundry engineers work with the producers in perfecting foundry practice in moulding and pouring so as to insure sound castings and in devising heat treatments that will put the iron into the best condition for this service.

### High Temperature Alloys

The never-ceasing effort to improve the efficiency of steam power plants requires operation at higher and higher temperatures and pressures. Inco engineers were called in to advise on the selection of alloys to handle steam at a pressure of 5,000 psi and a temperature of 1200° F.

This has required the development of special alloys capable of operating safely for many years under conditions where a few hundred hours life was the best that could be achieved in the early days of the jet engines which operated at this temperature. In addition to alloy development, Inco engineers have been consulted on the problems of fabrication and welding that will be encountered in the erection of these super critical steam power plants.

### Steam Plant Corrosion

The waters in Havana Harbor are so polluted with sewage and industrial wastes that the steam condenser tubes in the tide-water power plants are corroded very severely and have an unsatisfactory short life.

Inco corrosion engineers have been working with the power plant engineers in advising on which condenser tube alloy can be expected to be most economical in this peculiar water and in carrying out corrosion tests at the site to guide the proper selection of materials.

### Farm Tractor Gears

A large manufacturer of farm type tractors experienced prema-

ture failures of certain gears in the transmission. Inco metallurgists studied the problem and were able to recommend the selection of a nickel alloy steel and a heat treatment that eliminated the failures that had been encountered.

### Nickel Plating Studies

Most of the nickel used for electroplating is for decorative purposes, as on automobile bumpers and the like. During this critical period when it is necessary to stretch the nickel supply as far as possible, Inco engineers have been working with the platers to obtain the best possible performance of coatings that fall short of the optimum thickness of nickel.

Looking to the future of industrial applications of nickel plating to expand the market and make it less dependent on style factors, Inco plating specialists are developing new uses, such as creating a smooth corrosion-resistant surface on textile spinning machine parts, providing corrosion protection to piping and vessels in chemical and food plants, and as a substitute or supplement to tin for tin cans.

### Gas Turbines for Cars

There is considerable activity in the automotive industry looking towards the eventual substitution of gas turbines for piston engines in automobiles and trucks. Inco engineers are working closely with the automotive engineers in finding economical alloys that will make this big development possible.

# INCO FAMILY ALBUM



Mr. and Mrs. Nick Wolynsky (Frood-Stoble mine) with Morris, 12, Vera, 5, Walter, 3, George, 2, and Nida, 8.



Mr. and Mrs. Oscar Paradis (Coniston smelter) with Maurice 16, George, 14, Wilfred, 12, and Oscar Jr., 11.



Mr. and Mrs. Ed. Hawkey (Creighton mine) with Donald, 10, Eleanor, 7, and Barbara, 1.



(Right) Mr. and Mrs. Dick Lawrence (Murray mine) with Leanne, 5, and Lori, 2. (Lower right) Mr. and Mrs. Jim Chalker (Copper Cliff concentrator) with Paul, 16, and Randy, 11.

Mr. and Mrs. Laurent Martel (iron ore plant) with Denis, 6, and Bonita, 2.



Mr. and Mrs. Bert Linden (Port Colborne nickel refinery) with Judith, 10, Susan, 7, and David, 5 mos.







Drawings illustrating the stoping methods were studied by the visitors in the warm room at Frood-Stobie mine while they awaited the cage ride to the underground workings. With Mines Manager H. J. Mutz in the group on the left are G. L. Geiger, R. M. Wilson, Jr., C. B. Sanborn and D. J. Reese, all of New York, and A. S. Kightlinger of Bayonne. Posing in front of a car of ore on 1,000 level are E. B. Bitzer, New York; R. J. Raudebaugh, Bayonne; E. J. Hergenroether, New York; K. L. Clark, Los Angeles; Frank B. Foley, New York.



Another warm-room lineup shows C. J. Blanowicz and R. L. Lloyd, New York; R. J. Rice, Houston; K. D. Millis, New York; Ken Johnston, transportation, Copper Cliff; F. G. Sefing and M. J. Phillips, New York; Pat Trudeau, atomic research, Chalk River; R. N. Rhoda, Bayonne; R. B. Kropf, Detroit.



In this dinner table shot R. M. Bronson of Hartford is in the foreground, K. L. Clark of Los Angeles is chatting with J. C. Ferguson (wearing glasses) of Sudbury, retired master mechanic of mines, R. B. Kropf of Detroit is at the right, and facing the camera is Ricardo Menendez of Mexico City.

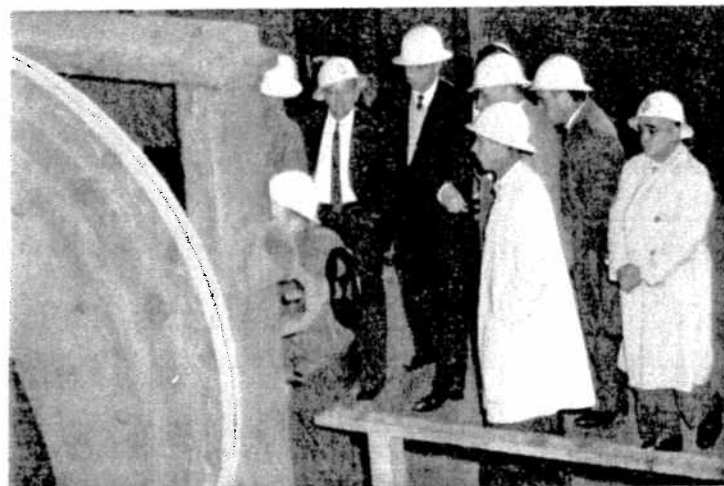
## Development and Research Experts Tour Operations

More than 100 technical representatives of Inco, whose job is to put nickel to work, spent two days this month gaining a thorough insight into how it is produced.

Escorted by supervisory and technical personnel from the various plants, who should be specially commended for a particularly well organized tour, the big group from the Company's development and research division toured Frood-Stobie mine, Creighton mill, the reduction plants at Copper Cliff, and the copper refinery.

Included among special features of their dinner programs were addresses by H. J. Mutz, manager of mines, and H. F. Zurbrigg, chief geologist. They were given a preview of the new Inco motion picture on the milling and smelting of Sudbury ores, with an introduction by James C. Parlee, manager of reduction plants.

Extending a cordial welcome to "another important branch of the great Inco family," Vice-President Ralph D. Parker recalled that the last previous visit of the division to Copper Cliff had been made in 1947, and 23 were in that group.



Inspecting a rod mill at Copper Cliff concentrator, in the group on the left, are E. B. Bitzer, New York; B. M. McNeely, Jr., Houston; George Davis, J. W. Sands, Gerry Sheldon, and C. J. Blanowicz, all of New York. On the right, chatting in the flotation section with W. H. Armstrong, plant metallurgist, are Mrs. V. B. Seidel, librarian, and Mrs. A. O. Riley, editorial assistant, both of New York; beyond them are Frank L. LaQue and Donald J. Reese, manager and assistant manager of development and research, New York, and James C. Parlee, manager of reduction plants.



Made in 1950 after he had won his first Canadian paddling championship, this Triangle picture shows Don Stringer, then 16, with his parents. His father, Weir Stringer, is a leader at Frood-Stobie No. 3 shaft.

## Don Stringer Canada's Best Olympic Hope

Regarded as Canada's best hope for a gold medal in the Olympics at Melbourne, Australia, at the end of this year, Don Stringer of Sudbury Canoe Club is training hard for the greatest test of his career.

The powerful big paddler, who is seen in the cover picture of this issue digging deep during a workout on Lake Ramsay, will leave about November 10 from Vancouver for Australia. He will compete in the 10,000 metre single

The size of this year's party, 105, was an illustration of how Inco had expanded its development and research activities during this brief interval.

It was a busy two days for the visitors, and when it was over they knew for certain they'd been on a tour, but they followed every phase with the keenest interest, asked a lot of pertinent questions, and took away to their customers and colleagues a graphic impression of the mighty industry they represent and its all-out effort to meet the free world's insatiable demands for nickel.

Inco offices in Milan, Italy, and Mexico City were among the several with an employee at the gathering, although the majority came from three principal categories, the heads of the division's technical sections in large industrial centres, the heads of the technical section in the research laboratory at Bayonne, New Jersey, and key personnel from the sales department.

Members of the Inco team assigned to nuclear research at Chalk River were among the Canadian representatives at the meeting.

There were two ladies present, Mrs. V. B. Seidel, the division's librarian, and Mrs. A. O. Riley, executive editorial assistant, both of the New York office.

blade singles at the Olympics on November 30, and in the 1,000 metre singles on December 1.

Earl "Doc" Whittall of the Lachine Canoe Club, coach of the Olympic games paddling team, who has been giving Don some special attention this month, says all Canada will be proud of this Sudbury boy when the races are over.

Don took up paddling in 1948 and two years later won the Canadian juvenile singles championship. In 1951 he moved up a notch, taking the Canadian junior title and also winning the 10,000 metre open, but his hopes of catching a berth on the Olympic team were dashed when he upset his boat in the trials at Ottawa, and Canada went to Helsinki without him.

When he won the Canadian senior 1,000 metre singles in 1952

## Presented Gifts to Constable Arthur Shute



A policeman for almost 40 years, Arthur Shute recently retired on pension from the Creighton police detachment, of which he had been a member since 1943. He is seen receiving a purse from Constable Addie Challa, representing the Copper Cliff Police Association. At the left is Chief A. F. Runciman, who also presented him with a gift from the police department fund, and at the right is Sergeant Hugh Grant, in charge of the Creighton detachment. Constable Shute was born near Wiarton, Ont., and during his career in police work was chief there. He also had wide police experience in Alberta. He leaves the Inco force with a host of good wishes for happiness in retirement.

he broke a record set away back in 1936 by the famous Frank Amyot. The following Labor Day, in a meet at Washington, he beat Frank Havens, the American who had won a gold medal at the Olympics. During the next three years he continued his brilliant record in both the Canadian and North American championships. That he has a champion's fighting heart was certainly shown this year in the Canadian meet when, despite an intense pain that developed in his side he refused to quit and completed the 10,000 metre course, placing second. His Canadian record for this event, set in 1955, still stands, 56 minutes and 54 seconds, almost a full minute faster than the 1952 Olympic time.

Although the 10,000 metres (approximately 6¼ miles, which he paddles at the rate of about 50 strokes to the minute) is looked

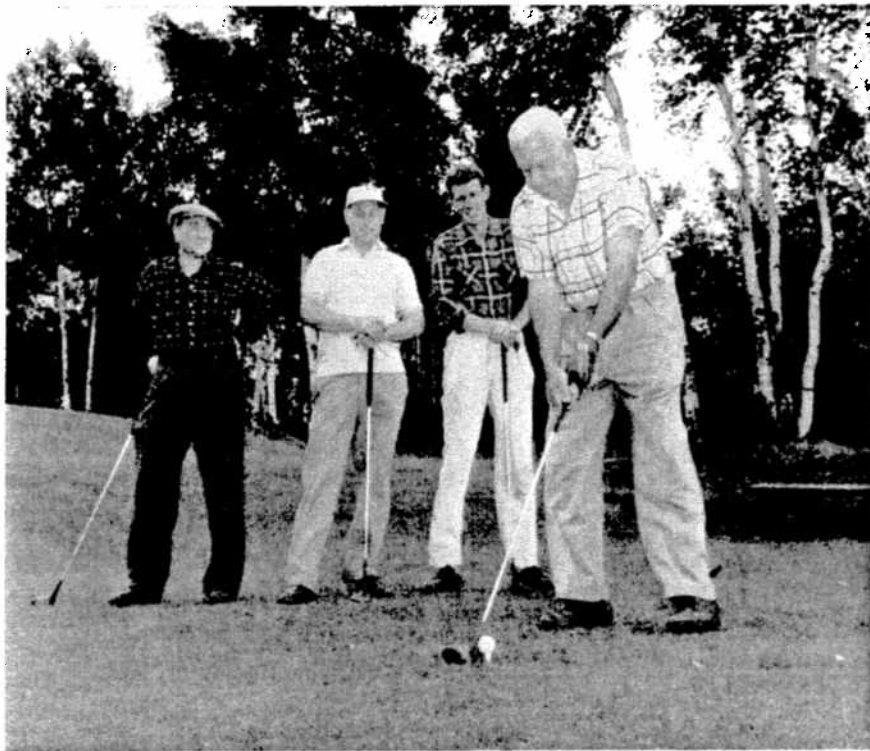
upon as his specialty, giving full scope to his rugged physique and terrific staying power, he is just as highly rated for the 1,000 metre event, in which he holds the North American record of 4 minutes and 32 seconds, compared to the 1952 Olympic time for this event of 4:56:3. Nobody who has competed against Don would be surprised to see the rangy, likeable big 22-year-old emerge a double winner at Melbourne if wind and water conditions happen to break to his style and liking.

He will take with him the best wishes of the entire Inco family, of which he has been a member during the past four summers as a student employee, working at Frood-Stobie and in the transportation department at Copper Cliff, and also those of his proud clubmates and the whole Canadian paddling fraternity.

## The Two Goals that Gave Kingsway Kids Bantam Soccer Title



When Kingsway beat Antwerp 2-0 for the championship of the bantam division of the Sudbury Playground Association's soccer league, the Triangle camera snapped both goals being scored. In the first picture the Antwerp goalie, Fred Hardy, had caught the booming shot by Lorne MacDonald but the ball tore through his grip and went into the twine. In the second picture Jack Hill nips in and makes no mistake in converting a beautiful corner kick by Dick Szkali to sew up the verdict. Kingsway also won the minor bantam title, beating Antwerp 1-0 in overtime, but Victory beat Kingsway 3-1 for the peewee championship. More than 400 boys played in the league this year, compared with 250 last summer. Convenor was Rod Hill, former Toronto Argo star, a smelter man at Copper Cliff who makes a hobby of boys' work. Among the many who gave him a valuable helping hand were Bob Elliott, Wes Maltby, Walter Hirny and, of course, the city's recreation director, popular George Kormos.



About to get away a 200-yarder, smack down the middle of the 7th fairway, is Allan Brock, pensioner and bon vivant. Behind him are Bruce King, Garson, and Bob Seawright and John Barnes, Creighton. On the right, lining up a putt, is "Hurley" Hreljac of Creighton.

## Frood-Stobie Takes Beattie Trophy for Inter-Plant Golf

Led by young Pat O'Gorman's 79, the lowest score of the day, a Frood-Stobie team won the Inco inter-plant golf team champion-

ship at Idylwyld with a 12-stroke margin over the highly regarded Mines department entry. Ab Miles was also hot for the

victors, posting an 81, and Art Silver and Bill Regan brought in an 86 and a 92 for a team gross of 338. Jim Dewey's 82 was the

best card of the runners-up.

A Research department quartet who entered the fray more in the interests of fun than science



Alex Godfrey with Frood-Stobie, winners of the Beattie trophy, Ab Miles, Pat O'Gorman, Art Silver and Bill Regan. On the right, the runners-up, the Mines department constellation of Ron Silver, Bob McAndrew, Herman Mutz, and Jim Dewey. Only 12 strokes separated the two teams.



Mills Austin presents the Lambert trophy to the Research department lineup of Cecil Baxter, Michael Head, Walter Curlook, and Bob de Vletter. He is seen on the right with the runners-up, Levack, Johnny McCreedy, Blake Davis, Al Beauchamp, and Bob Diebel.



In these pictures the individual prize-winners are receiving their awards: George Burns presents prizes to Steve Kuzmaski, Maurice Coulter, Dr. Jack Marlow, and Alfred Galins; Mac Forsythe to Tom Parris; H. J. Mutz to Ev Staples and (next picture) to Ted Flanagan.





Still able to smile after two gruelling rounds of battling wind and rough in the annual Inco golf tournament at Idylwyde were these four—some of Frank Horner (accounting), Ralph Cook (research), Jack Holtby (purchasing), and Michael Head (research).

astonished themselves by walking off with the E. C. Lambert trophy for the best low team net. They amassed fantastic scores but under a benevolent handicapping system wound up with the very respectable total of 293. Six strokes behind them were four Levack links-men led by Blake Davis, who has a hole in one at the Sudbury Golf Club to his credit.

With over 120 taking part and enthusiasm running at a high pitch, the tourney was considered one of the best within recent memory. Only real disappointment of the day, with the possible exception of Jim Grassby's failure to break the sound barrier, was the absence of a team from Port Colborne. Circumstances forced the cancellation of the nickel refinery's entry and robbed the meet of another exciting performance by Merle Noyes and his perennial par-busters.

A high wind complicated toward the end of the afternoon by a minor cloudburst sent many a promising score soaring into triple figures. What damage this did to morale was swiftly repaired in the pleasant atmosphere prevailing at the banquet, which was attended by all but a few of the contestants. The presentation of prizes brought forth the usual enjoyable barrage of wit, among which sparkled H. J. Mutz's bitter complaint against having been placed on a team with "three old men."

The presentations were made by Alex Godfrey, assistant to the vice-president; H. J. Mutz, manager of mines; T. M. Gaetz, superintendent of mines; Mills Austin, works auditor; B. M. Forsythe, general purchasing agent; George Burns, assistant works auditor, copper refinery.

Many of the golfers were joined by their ladies for the dance which was the final item on the program.

Arrangements for the event were again in the capable hands of Jim Grassby, who was given some invaluable assistance in totting up the scores by a couple of comp-tometers in the persons of Vern Johnston and Ron Wood.

Following is a summary of the scoring by teams, giving both gross and net totals for all who completed the 18-holes:

Mines dept. No. 1: H. J. Mutz, 90-77; R. F. Silver, 87-75; J. H. Dewey, 82-73; R. T. McAndrew, 91-72.

Frood-Stobie No. 1: A. Miles, 81-72; A. Silver, 86-74; P. O'Gorman, 79-71; W. Regan, 92-74.

Copper Cliff office No. 2: A. F. Brock, 101-76; K. Sproule, 106-75; D. Fraser, 109-79; R. Moss, 90-76.

Levack: J. McCreedy, 101-70; B. Davis, 97-74; D. Diebel, 114-77; A. Beauchamp, 122-78.

Garson No. 1: T. Flanagan, 81-72; T. Parris, 128-72; J. Murray, 103-77.

Frood-Stobie No. 2: T. Stewart, 87-75; D. Stephenson, 99-78; K. Segsworth, 104-75.

Mines dept. No. 2: F. McAteer, 121-76; J. Grassby, 114-80; V. Johnston, 117-77; E. Staples, 86-73.

Purchasing dept: B. M. Forsythe, 123-74; O. Boucher, 124-78; J. Holtby, 124-78; G. Watson, 126-77.

Creighton No. 1: N. Treflak, 104-77; C. Caul, 90-77; B. Seawright, 91-75; C. McCoy, 88-75.

Coniston: B. Muraska, 113-77; J. Angove, 133-76; N. Hann, 91-75; E. Traill, 88-75.

Creighton No. 2: H. Hreljac, 88-73; M. Davies, 104-79; J. Serpell, 131-77.

Creighton No. 3: R. McLeod, 115-76; J. Barnes, 92-77; S. Kuzmaski, 117-73; T. Gribble, 120-75.

Copper Cliff electrical: G. MacDonnell, 91-75; C. Rafuse, 97-78; K. Manner, 109-80; A. Leblanc, 99-78.

Garson No. 2: E. Hoffman, 87-75; B. Osborne, 103-73; S. Todd, 119-78; W. McIntyre, 92-76.

Frood-Stobie No. 3: N. Ledre, 97-78; P. Mackey, 105-79; E. Worthington, 106-77.

Refinery No. 1: L. Desilets, 96-75; A. Roy, 105-79; G. Burns, 88-73.

Copper Cliff warehouse: D. Meehan, 96-76; M. Meehan, 111-76.

Refinery No. 2: J. Kajganich, 96-74; L. Fay, 114-75; G. Fletcher, 92-77; J. Krystia, 111-76.

Frood-Stobie No. 4: J. Lennie, 97-76; P. Souter, 139-70.

Accounting dept.: F. Homer, 123-79; G. McMaster, 90-78; L. Garber, 109-80; S. Coagie, 109-77.

Creighton No. 4: R. Mentis, 97-77; G. Sadick, 110-79; R. Thain, 132-74.

Frood-Stobie No. 5: N. Koropatnick, 135-77; L. McChesney, 116-76; M. Coulier, 138-74.

Refinery No. 3: L. Arsenault, 110-80; C. Matthews, 127-77; S. Dutchburn, 110-77; A. Casas, 125-75.

Frood-Stobie No. 6: Norm Creet, 106-75; R. Woollacott, 120-80; G. Fleming, 90-78; O. McDermott, 106-75.

Copper Cliff Combines: T. Franssi, 106-73; N. Meaden, 124-75; R. Duchaine, 106-76.

Copper Cliff Outcasts: J. Marlow, 113-75; K. Johnston, 109-79; C. Goddard, 127-73; A. McCuaig, 113-74.

Research No. 1: J. Roy, 123-76; W. Cook, 111-77; W. Buchanan, 107-75; G. Lissaman, 144-74.

Research No. 2: R. de Vietter, 179-72; M. Head, 131-71; C. Baxter, 138-75; W. Curlook, 150-75.

Late entries: B. Pen, 100-78; J. Turnbull, 102-78; J. Lilley, 100-79; R. Tait, 103-77.

Life is cruel to men. When they're born, their mothers get compliments and flowers; when they get married the bride gets presents and publicity; and when they die, their wives get the insurance and the winters in Florida.

## QUICK QUIZ

1. Which province has the highest birth rate. Which has the lowest?

2. Ranked by value, what are Canada's first five export commodities?

3. Of Canada's 3.8 million occupied dwellings, how many are owner-occupied and how many are rented?

4. In 1949 the average wage paid in Canadian industry was \$42.96 per week. What is the current average?

5. How much did you spend on going to the movies last year?

ANSWERS: 3. Owner-occupied, 2.6 million; rented, 1.2 million. 5. Canadians, per capita, spend \$8.30 a year at the movie box office and go to the theatre 17 times a year. 1. Newfoundland has the highest, British Columbia the lowest. 4. At April, 1956, \$63.37 per week. 2. Newsprint, planks and boards, wheat, woodpulp, nickel.

(Material prepared by the editors of Quick Canadian Facts)

## 'Holy Smokes' Now Pensioner

While almost everyone at Frood-Stobie knew smiling, roly-poly

"Holy Smokes," few would recognize him as Matt Trpeich, the name appearing on his employment record. He retired recently on disability pension with close to 23 years' service.

Matt received his unique moniker many years ago as the result of using that expression liberally and loosely as a reply, comment on the weather, statement of political belief, term of endearment, cussword, or what have you. He discovered early in the game that to exhale "Holy Smokes!" took care of just about any old situation in the book.

Born in Croatia in 1895, "Holy Smokes" came to South Porcupine in 1928 where he worked a year at Ankorite. Upon his arrival in Sudbury Allan Brock hired him for Frood where, but for a trip back to the old country in 1932-33, he remained since. He recalls with pride that R. D. Parker rehired him quickly in 1933 as soon as he displayed his x-ray certificate.

A first rate miner "Holy Smokes" spent most of his years on the business end of one sort of drill or another. Leyner, stoper, sinker were all handled with equal skill and ease as he drove drifts and raises and sank shafts. Raise drilling was his forte and it is still a Frood phenomenon how his 5-foot 6-inch, 225-pound frame with a 44-inch waist travelled back and forth into raises via the crawl-through, an opening that measured approximately 12 by 24 inches!

He was married in Croatia in 1914 and his wife and all but one of his seven children have re-

mained there. His youngest son came to this country and is employed at Nickel Offsets.

"Holy Smokes" is considering a trip back home and if the air is agreeable he may stay. Wherever he is he can be assured of one thing, and that is the fact that he has a host of friends among the Frood-Stobie miners.

## He Still Says 1929 Was a Great Year

Retiring on service pension from his job of skip tender at Frood-Stobie's No. 4 shaft, Art McCann recalled that it was to No. 4 shaft that he was first hired back in 1929 by the late Martin Horne. Many of the intervening years he spent at No. 3 shaft, both in stope work and on construction, working for Steve Yawney and Joe Ressel among others, and being considered one of their most reliable men.



Mr. and Mrs. Art McCann

Born at Wolf Lake near Ottawa in 1891, Art gave farming, bush-work, the railroad and construction all a whirl before getting into the mining game. McMillan Mine near Whitefish Falls saw his debut and the next three years were spent sinking the shaft and driving drifts. That operation collapsed financially in 1929 so Art decided to head for the gold fields, stopped over in Sudbury, and found himself working for Inco.

That was a banner year all round for Art, since in addition to joining forces with Inco he also joined hands with Violet Dube of North Bay. He is more than happy with the results of both associations as he reflects back over 26 happily married years, six fine children and a comfortable Inco pension.

Of his family, Arnold works with the fitters at Copper Cliff; Iris is Mrs. McHugh and Doris is Mrs. Lacourciere, both of Sudbury; Devyla married Clarence McCann of Frood (couldn't stand to have her name changed); Teddy is with Imperial Oil, and Diane attends high school. There are six grandchildren and when everyone gathers at Christmas and other occasions there is, as Art tells it, "never a dull moment."

### MIND OVER MATTER

In the high school English class, the teacher was trying to impress the class with the importance of a large vocabulary. He said that if the students took a word and used it ten times it would be theirs for life.

One girl was heard to murmur: "Tom, Tom, Tom, Tom, Tom, Tom, Tom, Tom, Tom, Tom."

So long as you are learning, you are not growing old. It's when a man stops learning that he begins to grow old.—Joseph Hergesheimer.

## Pole Top Rescue Demonstrated



Field engineers of the Electrical Employers' Association demonstrate two phases of rescue work for line crews. On the left two men are lowering an injured workmate from a pole, and on the right pole top resuscitation is being carried out.

## Linemen Learn New Methods

Performing artificial respiration on an electrocuted lineman hanging unconscious from his pole strap atop a power line pole sounds like a very difficult assignment, but a picked team of linemen recently showed how it can be done quickly and effectively.

Sponsored by the Electrical Employers' Association of Ontario, the demonstration is touring the province to reach the line employees of both public and private enterprise. A. E. O'Brien, Inco's superintendent of safety, said the new method has been adopted by the Company's line crews.

When lowering a victim from a pole cannot be swiftly and safely carried out, on-the-spot aid must be given.

In pole top resuscitation the rescuer maneuvers the victim and himself into a position where the victim is sitting astride his lap with his legs on either side of the rescuer's pole strap. He then circles the victim's body with his arms and applies pressure with his hands (finger tips almost touching) to the diaphragm just below the front lower ribs. The rhythm is the same as for the prone pressure method of artificial respiration. Raising and lowering the victim's arms in an arc is also effective where movement is not restricted or dangerous.

Lowering an unconscious man from a pole is carried out by the linemen passing his 1/2-inch over

the cross-arm of the pole and fastening the free end to the D ring of the victim's body belt. If two men are performing the rescue one cuts the victim's pole strap while the other, holding the line, lowers him quickly to the ground. If there is only one rescuer, he is advised to take a long rolling turn of the hand line around his leg, and anchor that leg to the pole with his spur before cutting the pole strap. At the same time he takes a firm grip on the rope against the load that will suddenly come upon it. When the victim is brought to the ground artificial respiration should be applied immediately.

Speed is of the essence in rescuing an electrocuted person, it was stressed. Statistics show that when artificial respiration has been applied within one minute or less, 90% of the victims have recovered. Where there has been a delay of six minutes or more, only 10% have been revived. The special demonstration showed that a line crew could commence respiration on a victim within 37 seconds.

Decision and determination are the engineer and fireman of our train to opportunity and success.  
—Burt Lawlor.

## Retain Star Trophy

A Copper Cliff police department team retained the Sudbury Daily Star trophy at the second annual shoot of the Sudbury District Pistol Association, held at the Burwash Industrial Farm range.

Sgt. Bert Hague, Inspector Adam Watson, Constable Lloyd Davey, and Constable Chuck Greenough were members of the team. Their aggregate score of 748 compared with the 707 tallied by OPP No. 1 team, nearest of the other 11 teams competing.

Inspector Watson was high man in another event, 10 rounds slow fire with a service revolver, for which he received the CKSO trophy.

A total of 52 policemen and Burwash guards took part in the successful event, which was arranged by Constable Al Weekes, provincial police, Sudbury, and Constable Davey. Range masters were Gordon Poulton and Jim McGregor.

There are only as many days in the year as you make use of. One man gets only a week's value out of a year while another man gets a full year's value out of a week.

—Charles Richards.

## A Load of Highgrade



The four men in front of this cageload of Inco visitors to Frood-Stobie No. 3 shaft were J. W. Crossett, New York; K. G. Carroll, Bayonne; V. C. Robinson, Minneapolis; Don McLean, manager of the Toronto office.

## Two Creighton Mechanical Department Veterans Are Farewelled



Two stalwarts of the mines mechanical department at Creighton, by coincidence of the same surname, Hughie Simpson and Orville Simpson got a great sendoff from a gathering of their workmates recently as they embarked on the leisurely life of Inco pensioners, Hughie after over 28 years' service and Orville after more than 35 years with the Company. Seated at the head table, at the party held in their honor in the Italian Hall at Copper Cliff, were, left to right above: Eddie Moyle and Bert Smiley, assistant master mechanic and master mechanic of mines; H. J. Mutz, manager of mines; Hughie Simpson, Orville Simpson, Archie Massey, assistant superintendent, Creighton mine; T. M. Gaetz, superintendent of mines; Fred Pentney, master mechanic, Creighton.



## 222 New Members for Inco Quarter Century Club Roster

Toronto Maple Leafs, who are using Sudbury Arena as training headquarters this year in preparation for the National Hockey League season, moved out and set up shop in Stanley Stadium at Copper Cliff for a few days to make way for one of the most important events on the Arena calendar, the annual dinner meeting of the Inco Quarter Century Club on September 27.

On this and the next three pages are photographs of the 222 men from the mines, mills, smelters and copper refinery who have completed 25 years' credited service with the Company and thus qualify for membership in the club this year. Falling short of last year's record group of 269, the 1956 class of new members nevertheless is still one of the largest ever to enter the distinguished ranks of Inco's service veterans. A subsequent issue of the Triangle will carry pictures of the new members joining the Port Colborne branch of the Quarter Century Club this year.

As usual it has been a great pleasure for the Triangle to make the photographs of this fine group of men and publish them in the permanent record of the achievements of the Inco family.



Eugenio Adamo  
Copper Refinery



Bill Adams  
Copper Cliff



Joseph Albert  
Frood-Stobie



Vittorio Alberton  
Coniston



John Antola  
Open Pit



Roger Auger  
Copper Cliff



Mike Babulic  
Open Pit



Pasquale Paecicaglia  
Open Pit



Stanley Barczuski  
Frood-Stobie



Aldo Bardeglio  
Copper Cliff



Wilfred Barrette  
Copper Cliff



Ludvik Bartol  
Copper Refinery



Nelson Bellmore  
Murray



John Belous  
Creighton



Bert Benard  
Copper Refinery



George Bene  
Copper Cliff



Ginny Bertulli  
Copper Cliff



Nick Bielich  
Copper Refinery



Joe Bischoff  
Copper Refinery



Alex Blanchard  
Iron Ore Plant



Peter Bobnac  
Copper Refinery



Alfonso Bozzer  
Copper Cliff



Walter Bradburn  
Copper Cliff



Tom Bradley  
Copper Cliff



Ted Brankley  
Garson



Charles Brooks  
Copper Cliff



Thomas Bruce  
Creighton



Percy Burchell  
Copper Cliff



Charles Byers  
Copper Cliff



Arney Carrey  
Copper Cliff



James Carson  
Copper Refinery



Frank Casagrande  
Copper Cliff



Herb Cavers  
Copper Refinery



Albert Charron  
Copper Cliff



Reg Cogan  
Copper Cliff



Walter Colls  
Garson



Don Cooney  
Copper Cliff



Joe Costa  
Copper Cliff



Eddie Coulombe  
Copper Refinery



Paul Coulombe  
Copper Refinery



Colin Counsell  
Copper Cliff



Adolph Cretzman  
Creighton



Alex Crossgrove  
Copper Cliff



Tom Crowe  
Copper Refinery



Jimmy Daigle  
Creighton



Wilbert Dashney  
Copper Cliff



Bert Debney  
Open Pit



Aldo Desanti  
Copper Cliff



Fred Desjardins  
Garson



Cliff Dever  
Copper Cliff



Garnet Dice  
Copper Cliff



George Diksich  
Frood-Stobie



Donato Disalle  
Copper Cliff



Harry Dmytryszyn  
Open Pit



Marjan Donice  
Frood-Stobie



Frank Dulkys  
Copper Cliff



Jack Duncan  
Copper Refinery



Ossian Edman  
Creighton



Joe Fajcs  
Copper Cliff



Mario Fiorotto  
Copper Cliff



Christie Fleming  
Frood-Stobie



Ray Forth  
Copper Cliff



Regy Foucault  
Frood-Stobie



Tony Franceschini  
Murray



John Fraser  
Copper Cliff



Jack French  
Copper Cliff



Steve Furach  
Open Pit



James Fynn  
Copper Cliff



Bill Gamble  
Murray



Cliff Gatchell  
Frood-Stobie



Arthur Gauthier  
Coniston



Aldo Giommi  
Copper Cliff



Ido Girolametto  
Copper Cliff



George Greevich  
Frood-Stobie



Diston Grieg  
Copper Cliff



Jack Griss  
Copper Cliff



Tony Grm  
Frood-Stobie



Raymond Groulx  
Copper Refinery



Frank Grubie  
Frood-Stobie



Alfred Guindon  
Copper Cliff



Bud Hall  
Frood-Stobie



George Hardy  
Frood-Stobie



Russell Hewgill  
Copper Refinery



Hector Hickey  
Copper Cliff



Walter Hnatelko  
Copper Cliff



Dick Howard  
Copper Cliff



Wasyl Hryniewicz  
Copper Refinery



Eddie Jackson  
Copper Refinery



Jack Jardine  
Frood-Stobie



Bruce Johnson  
Copper Refinery



Casey Jones  
Frood-Stobie



Frank Kangas  
Open Pit



Adiel Kanssaho  
Creighton



Lloyd King  
Copper Cliff



Alfred Knuth  
Copper Cliff



Zukol Kramar  
Levack



Carl Kudlasch  
Frood-Stobie



Bill Kuhl  
Copper Cliff



Toiva Kupari  
Frood-Stobie



Steve Kurpas  
Copper Refinery



John Kuryk  
Copper Cliff



Paul Laberge  
Frood-Stobie



Lawrence Lajeunesse  
Coniston



Ivan Langille  
Copper Cliff



Emery Larocque  
Copper Cliff



Percy Larocque  
Copper Refinery



Edward Lawrence  
Levack



Edgar Leblanc  
Open Pit



Charles Leonard  
Coniston



Jack Lepage  
Frood-Stobie



Steve Lesko  
Copper Cliff



John Levesque  
Frood-Stobie



Jangin Linkevicius  
Copper Cliff



Harry Lipscombe  
Copper Refinery



Ronnie Lipscombe  
Copper Refinery



Harry Loszka  
Frood-Stobie



John Luptak  
Copper Cliff



Wally MacKay  
Frood-Stobie



Arnold Maitland  
Frood-Stobie



John Maki  
Frood-Stobie



John Marleash  
Copper Cliff



Joe Marois  
Open Pit



Jack Marshall  
Copper Refinery



Joe Martin  
Frood-Stobie



Cecil Mathews  
Copper Refinery



Giuseppe Meandro  
Copper Cliff



Primo Mei  
Copper Cliff



Tony Merrifield  
Copper Cliff



Donald McDonald  
Copper Refinery



Harry McGinn  
Copper Cliff



Jim McGuire  
Copper Cliff



Frank McKain  
Copper Cliff



Jack McKenna  
Copper Cliff



Murdo McKenzie  
Copper Refinery



Andrew McLean  
Coniston



Earl McMullen  
Creighton Mill



Bud Montgomery  
Creighton Mill



Dan Monstad  
Frood-Stobie



Teddy Moroz  
Copper Refinery



Oscar Moyer  
Coniston



Jan Mraz  
Copper Refinery



Fred Murphy  
Coniston



Tony Muzzin  
Open Pit



Bill Nolan  
Copper Cliff



Joe Nicoll  
Copper Cliff



Steve Nyklozyk  
Frood-Stobie



Pete Oleksuk  
Creighton



Bill O'Neill  
Levack



Tom O'Neill  
Frood-Stobie



Stefan Orablj  
Levack



Bill Otley  
Copper Refinery



Joseph Pappin  
Copper Cliff



Danny Parker  
Frood-Stobie



Lonnie Parker  
Levack



Jack Pearson  
Frood-Stobie



Joe Penn  
Copper Cliff



Arthur Picard  
Copper Refinery



Tony Popescu  
Frood-Stobie



Andy Pruss  
Copper Refinery



Eino Pukara  
Open Pit



Dan Quinn  
Frood-Stobie



Joe Rabski  
Frood-Stobie



David Crandall  
Copper Cliff



Alex Rivard  
Coniston



Bert Robertson  
Frood-Stobie



John Roininen  
Open Pit



Giovanni Romanato  
Pensioner



Steve Romanuk  
Copper Refinery



Victor Ross  
Copper Cliff



John Rovinelli  
Copper Cliff



Gino Santl  
Copper Cliff



Joe Santoro  
Copper Refinery



Silvo Sarlin  
Copper Cliff



Daus Sauve  
Copper Refinery



Joe Sauve  
Copper Cliff



Victor Savage  
Frood-Stobie



George Schmare  
Copper Cliff



Rino Serafino  
Copper Cliff



Eldon Severin  
Copper Cliff



Ignac Severinae  
Frood-Stobie



Stanley Simiaski  
Frood-Stobie



Andy Simeoni  
Copper Cliff



Herb Shoveller  
Copper Refinery



Paul Slepcevich  
Copper Refinery





Tony Smythe  
Copper Cliff



John Soganich  
Frood-Stobie



John Spiwak  
Frood-Stobie



Hjalmar Stavang  
Copper Cliff



Charlie Stemp  
Copper Cliff



Fred Stevens  
Copper Cliff



Al Stoddart  
Copper Cliff



Fred Strong  
Copper Cliff



George Suckow  
Copper Cliff



Walter Szmiglelski  
Creighton



Tad Tadia  
Murray



Alex Tanasiejczuk  
Copper Cliff



Jimmy Thompson  
Frood-Stobie



Wes Thompson  
Frood-Stobie



Adrien Trepannier  
Coniston



Frank Trselle  
Frood-Stobie



John Urban  
Frood-Stobie



Tony Vendramin  
Copper Refinery



Aldege Vincent  
Copper Refinery



Eli Vukobrat  
Frood-Stobie



John Walker  
Creighton Mill



Mike Wawryszy  
Levack



Herbert Wells  
Copper Cliff



Arthur Whissell  
Copper Cliff



Riha Wlinikka  
Open Pit



Art Wilcox  
Copper Refinery



Ray Williams  
Copper Refinery



Jack Wilson  
Copper Cliff



Einarl Wilson  
Copper Cliff



Dmytro Wolanski  
Open Pit



George Wright  
Creighton Mill



John Yawney  
Creighton



Charlie Young  
Copper Cliff



Lorenzo Zanette  
Copper Cliff



Paul Zariczny  
Copper Cliff



Pete Zelonka  
Frood-Stobie



John Zimany  
Copper Refinery



Jack MacKinnon  
Copper Cliff

## Craneman for Over Forty Years

Retiring on pension after over 40 years of service, Felix Belanger of Coniston remarked that if he were to start anew he would repeat the formula he has used all these years: get a job with Inco, learn to like the work you are doing, and make friends. That this recipe has paid off for Felix is indicated by the fact that today at 65 he looks, feels and acts like a man 15 years his junior.

The old racetrack at Chelmsford was the site of the farm on which Felix was born in 1891, and his parents later operated the hotel in that town. In addition his father ran the livery stable and also acted as justice of the peace when the need arose. Some schooling and a couple of years in the lumber mill at Chelmsford gave Felix enough courage to invade Sudbury in 1909. In 1913 the Mond Nickel Company completed their new smelter at Coniston and when men were required for a three-shift operation Felix was on the spot. But for a short period at Copper Cliff when

Coniston was down, he remained there until his retirement.

Most of his 40 years have been spent as a crane operator, the last 37 of them operating No. 2 crane



Mr. and Mrs. Felix Belanger

on the converters almost exclusively. Felix enjoyed his work — so much so, in fact that after returning to Coniston in 1930 he says he missed only four shifts, and those due to illness. Felix also proudly states that he has had no accident nor any trouble in all that time, a fine record indeed.

In 1915 he married Nellie Modeste of Crean Hill and in addition to their 41 years of happiness, they have four children and 10 grandchildren. Adjutor, their eldest, is

employed at Coniston; Felicia is Mrs. Van Dett of Ottawa, where Frederic works in the civil service. Joseph is a medical technician in Venture, California, a spot that Felix and his wife are eyeing seriously as their future winter quarters.

While seldom an active participant Felix has always been a loyal sports fan, with Coniston Red Sox and the Sudbury Wolves receiving the lion's share of his attention in season. TV wrestling nights usually find him close to the hearth.

Good health and a happy family are two things of which Felix is very appreciative. May he and his wife long enjoy both of them, is the wish of their many friends.

### PROTECTIVE HABITS

The three-year-old and his father were being pushed toward the rear of a rapidly-filling elevator. A kindly woman turned to the dad and said, "Aren't you afraid your little boy will be squashed?"

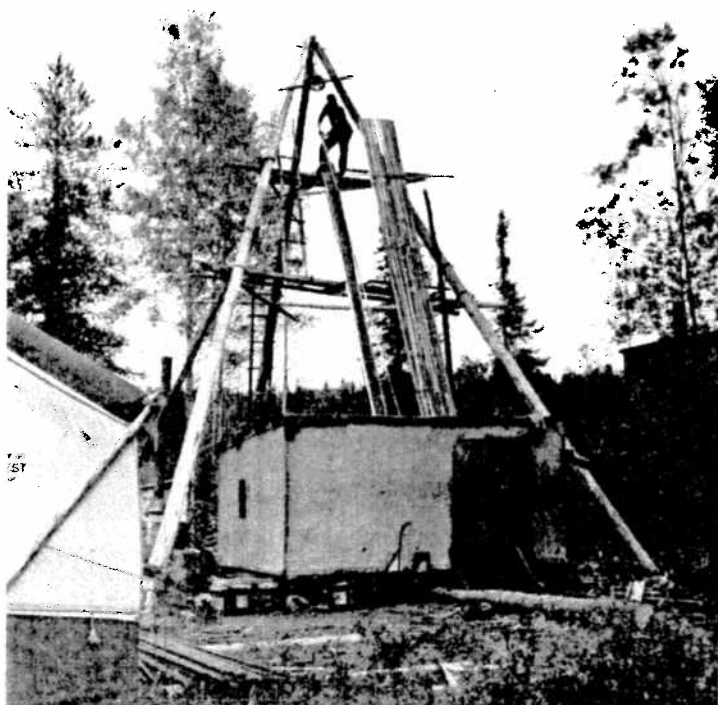
"Not a chance, lady," answered the father. "He bites!"

## Finds Indian Relic



Mrs. Eino Tuovinen holds a sharp-edged stone tool, thought to be an Indian skinning knife, which she unearthed while digging in the garden at the beautiful summer camp she and her husband have on Long Lake. Eino is foreman of the instrument shop in the electrical department at Copper Cliff.

# Aviation Strong Right Arm of Canadian Nickel's Exploration



At this standard diamond drilling setup in the Moak Lake area they're pulling rods at the end of a run to bring up the core barrel from the inclined hole. Samples are taken from the core for assay.



This combined camp for diamond drillers and a Canadian Nickel geophysical survey party is one of a dozen in the Moak area. The helicopter in the background brings drilling supplies from the main camp.



Part of Canadian Nickel Company's main exploration camp at Moak Lake is shown here. Among the buildings are the offices, lab., warehouse, carpenter shop, core shack, geophysical repair shack, and bunkhouses.

Whether or not International Nickel decides that mineralization in the area of Mystery and Moak lakes in Northern Manitoba warrants the development of a mine, the activities of its exploration subsidiary, Canadian Nickel Company, have strikingly illustrated the importance of aircraft in modern geological investigation.

Apart from the thousands of miles flown in airborne geophysical study of the district, the movement of supplies and personnel for further investigation on the ground by geophysical methods, and by diamond drilling from surface and at depth, would have been a well-nigh insurmountable task without the use of helicopters and other aircraft.

Aviation has also been the strong

right arm of other Inco exploration programs in Saskatchewan, the Northwest Territories, Minnesota, Australia and Venezuela.

According to local legend Mystery Lake was named by the wife of prospector Gordon Murray, who first discovered mineralization there in 1927. He kept the location of the lake and the strike a secret from other prospectors who tried to find it by following him. Aircraft were a rarity in the area in those days. Murray operated a canoe out of Wabowden and Thicket Portage. He was aided in maintaining the mystery for a long time by the fact that Mystery Creek has an almost blind entrance into the Burntwood River. The name Moak is an abbreviation of the Cree word Machwahsahgahaygen, meaning Loon Lake.



Main and tail rotors whirling, a big helicopter drops down on the landing pad at one of the drill rigs. One of several aircraft shuttling back and forth from the main camp with supplies, it carries a load of 1,300 lbs.



At the end of a day bags of drill core samples are loaded into an aircraft at one of the outlying camps to be flown to the main camp for grinding and assay. Canadian Nickel had 20 diamond drills in operation at Moak.

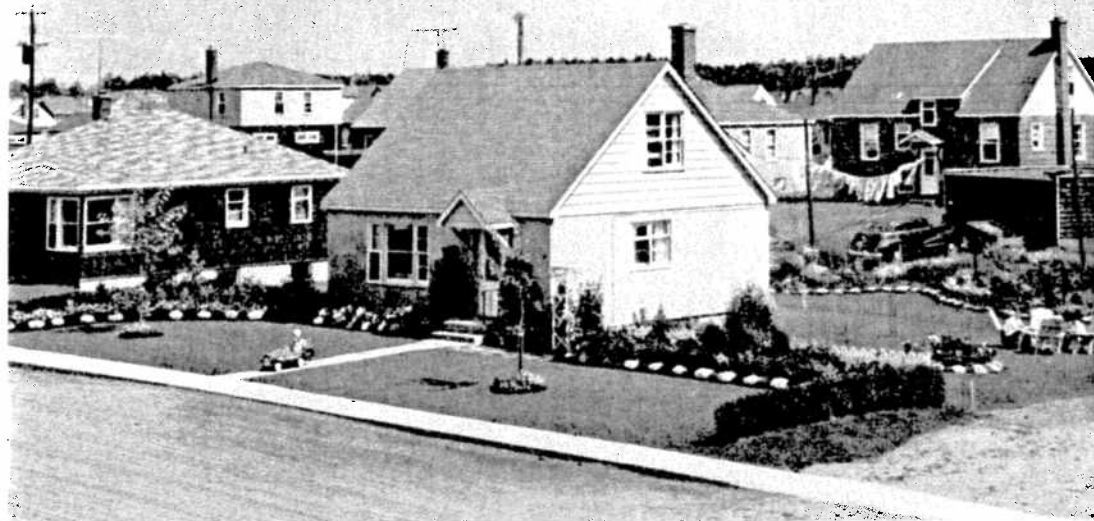
# Name Winners For Gardens In Inco Towns

A steady increase in the number of Inco people beautifying their homes by making flower beds and planting shrubs is noted in the report of the agricultural department accompanying the annual announcement of gardening awards. Especially in the new housing sections at Levack and Lively was a quickening of interest in horticulture apparent.

The judges of this year's garden competition in Inco towns, Mrs. W. K. Kettle of Bracebridge and Tom Vickers of Sudbury (a brother of Jack Vickers of the copper refinery), expressed admiration of the results achieved. "The people who plant beauty around their homes keep the grounds neat and tidy," Mr. Vickers observed, "give pleasure not only to themselves but also to their neighbors and the passerby. They make the world a better place to live in."

Lawns were generally good, the judges found, although some showed the effect of the prolonged August drought at the time of judging. The display of bloom by flowers was much better than in 1955 due to a cooler season causing a slower rate of maturity.

In the 35th annual competition of the Sudbury Horticultural Society Inco people also distinguished themselves. Mrs. Roy Day, whose husband works at Frood-Stobie, was grand champion of the show



Among Liveley's loveliest again this year were the grounds at the Bert Squirell home at 241 12th avenue. Bert is a member of the electrical department at Copper Cliff.

and had the most outstanding home garden lot in the district. Dennis Yawney of Lively, a Creighton employee, won three awards for his gladioli. W. Mutsch, who works at Garson, had the best vegetable garden, Bill Oja of Creighton the best flower garden and lawn 50 foot frontage or over, and Mrs. Lauri (Frood-Stobie) Puro the best small flower garden and grass plot.

A complete list of the awards

in the competition for Inco towns follows:

## Copper Cliff — Class 1

E. Posten, 30 Power St., \$20.00; H. Stavang, 35 Evans Rd., \$15.00; M. Sharko, 21 Orford, \$10.00; P. Lislecke, 19 Orford, \$9.00; A. Stoddart, 8 Clarabelle, \$8.00; L. Roy, 50 Evans Rd., \$7.00; A. Nickle, 4 Kent, \$6.00; and the following awards of \$5.00 each: E. Lawson, 3B Peter St. N.; W. E. O'Brien, 4B Peter St. N.; J. R. Clark, 48 Poplar; J. A. Beaudry, 4A Peter St. N.; R. Snitch, 33 Evans Rd.; W. Zinkie, 6 Oliver; J. Clarke, 6 Granite; P. E. Semler, 39 Evans Rd.; T. Gladstone, 17 Power; S. McCroome, 13B Peter St. S.; W. J. Powell, 33 Finland; J.

Kontturi, 6 Temperance; W. L. Taylor, 5 Oliver; Mike Rogers, 10 Union; D. E. McDonald, 42 Finland; J. Siwicki, 13 Poland; G. Dempsey, 8 Rink; T. O'Connor, 22 Church; L. Maltby, 5B Peter St. S.; W. Kuhl, 13 Power; E. Marcon, 22 Union; F. Imperatori, 33 Diorite; J. F. Jennings, 32B Nickel; Miss Muriel Eagles, 5 Norite; W. Nolan, 45 Finland; G. Henry, 23 Cobalt; G. Harry, 22 Oliver; R. Rose, 11B Peter St. S.; Fraser Fields, 33A Nickel; N. Meahen, 19 Nickel; K. Salo, 21 Succo; P. Akkanen, 46 Balsam; D. Sathani, 46 Evans Rd.; R. W. Smith, 13 Orford; J. Kania, 92 Balsam; H. Rosien, 90B Balsam; Y. Vesanen, 29 Poplar; M. Lemke, 38 Power; H. Shields, 15 Succo; S. Martyn, 16 Orford.



In the picture on the left Mrs. Lauri Puro is shown at her home on Mabel Street, Sudbury, which was judged the best small garden and grass plot in the annual contest of the Sudbury Horticultural Society. On the right Don Orendorff chats with Tom Vickers, judge, and Tom Peters of the Inco agricultural department, in the prize-winning grounds at the home of his parents, Mr. and Mrs. E. J. Orendorff, Coniston.



# A Gold Watch for Davey



A grand little Scot with almost 25 years of Inco service behind him, Davey Duncan has retired as machine shop foreman at the copper refinery. He's shown here being presented with a gold watch by Bob Rodger, mechanical superintendent. On the right is Stu Smythe. Dave's retirement party was held at the Moose Hall in Sudbury, and was largely attended. He also received as a gift from the gang a well-lined wallet, presented by Norm Ripley.

## Copper Cliff — Class 2

W. Chapman, 6 Kent, \$20.00; W. Rogers, 3 Market, \$15.00; H. McKay, 1A Orford, \$10.00; J. McQuillan, 41 Evans Rd., \$8.00; P. Ogilvie, 48 Evans Rd., \$7.00; Alton Browne, 1B McKean, \$6.00; P. Lowney, 5 Evans Rd., \$6.00; and the following awards of \$5.00 each: E. Tigert, 5 McKean; H. Allan, 101A Balsam; R. Clarke, 4 McNiven; Geo. Burns, 2 McNiven; T. Moland, 21 Nickel; Chas. Stemp, 1B Orford; A. Illis, 91 Balsam; C. B. Mathews, 44 Finland; F. Steadman, 5 Cliff; L. Hamilton, 5 Clarabelle; A. Harrison, 19 Cobalt; V. McGauley, 3 Power; D. Thom, 15 Power; R. Steadman, 55 Poplar; Rev. L. T. Pikkusaari, 27 Poplar; M. Bennett, 25 Succo; Earl Stoddart, 10 Jones; G. Hervey, 47 Poplar; R. Bell, 12 Oliver; J. T. Forsyth, 8 McKean; Mrs. E. Fox, 14 Jones; G. Hildebrandt, 95 Balsam; A. Thornborough, 55 Power; A. McNeill, 51 Power; G. Guthrie, 18 Oliver.

## Coniston

E. J. Orendorf, 17 First Ave., \$20.00; M. Girolametto, 36 Second St., \$15.00; D. P. Totino, 49 Third Ave., \$10.00; G. L. Geoffrey, 16 First Ave., \$8.00; W. J. McLaughlin, 13 First Ave., \$7.00; and the following awards of \$5.00 each: S. Floreani, 17 First St.; O. Paradis, 31 First Ave.; H. Cresswell, 41 Second Ave.; G. Adams, 19 Balsam; J. Cleaver, 61 Second St.; P. Gobbo, 149 John St.; Mrs. C. Chezzie, 43 Third Ave.; J. Shelegy, 6 Fifth St.; R. V. Keffer, 42 Second Ave.; A. Rivard, 2 William St.; N. Zeleny, 24 Nickel St.; Mrs. P. Horek, 36 Dubroy St.; L. Piotto, 32 Fifth Ave.; J. Angove, 32 Fourth Ave.; W. Patterson, 46 Third Ave.; Mrs. L. Forestell, 38 Edward Ave.; A. Blake, 21 First Ave.; E. McKerral, 34 Second Ave.; Maria Oliver, 19 Second St.; W. Kowal, 7 William St.; Vito Battistuzzi, 39 Second St.; G. Halverson, 37 Fourth Ave.; Eugene Lacarte, 12 Concession St.; W. E. Pigott, 27 Balsam; M. Hayden, 11 Balsam; P. M. Aggis, 43 Second Ave.; A. Gobbo, 45 Third Ave.; H. Bray, 39 Fourth Ave.; L. Gauthier, 45 Fourth Ave.; J. Werstluk, 35 William St.; Eva Pakaluk, 3 Fifth St.; P. Baran, 8 Fifth St.; L. Visentin, 10 Fifth St.; J. Chwyk, 94 William St.; J. Broniczski, 71 William St.; N. Bilenki, 35 Dubreil St.; W. Coppo, 31 Fifth Ave.; J. Bloeman, 38 Fourth Ave.; R. Duncan, 46 Fourth Ave.; R. Ballantyne, 43 Fourth Ave.; T. Tancredi, 21 Third Ave.; L. King, 33 Third Ave.; Mrs. J. Shreeve, 48 Concession.

## Creighton Mine

Wm. Oja, 2 George, \$20.00; E. Kaukonen, 10 Victoria, \$15.00; N. Silverson, 48 Alexandra, \$10.00; J. Koskinen, 18 Alexandra, \$9.00; John Quinn, 29 George, \$8.00; J. Nichols, 4 Connaught, \$7.00; N. McDonald, 6 Victoria, \$6.00; and the following awards of \$5.00 each: A. Ostashek, 42 Alexandra; J. Hutton, 31 George; C. B. Platt, 63 Wavell; W. A. Mitchell, 10 Churchill; J. Glibe, 7 George; J. C. Currie, 11 Wavell; J. Takala, 34 Copper Cliff Road; L. McLaughlin, 34 Alexandra; K. Suutarinen, 20 George; H. H. Smith, 15 Churchill; E. Tahvanainen, 61A Wavell; W. Greer, 1B Algoma; T. Gjumin, 23 Albert; J. Halini, 12 Nicholas; H. Grant, 10 McNaughton; J. Thomas, 37 Wavell; T. B. Murphy, 55 Wavell; C. Drennan, 24

Wavell; V. Elder, 18 Snider; J. Kozuk, 4A Algoma; V. Tremblay, 41 Alexandra; J. Moore, 7 Grey St.; A. Maenpaa, 14 Grey; W. Linholm, 12 Edward; E. Wunsch, 8 Edward; M. Kotanen, 15 Edward; V. Lepista, 8 Victoria; P. Zumiska, 12 George; E. McLean, 9 George; G. Syrokas, 9A Albert; C. Hastrawser, 9 Edward.

## GARSON

R. B. Gresham, 63 Henry, \$10.00; A. R. McLennan, 18 Rule, \$8.00; E. Merkley, 19 Rule, \$6.00; A. Dockrell, 112 Henry, \$5.00; L. Pletzer, 9 Rule, \$5.00; N. Markel, 50 Rule, \$5.00.

## Levack

E. Hilton, 14 B Sixth Ave., \$20.00; F. T. Crome, 7 Riverview, \$15.00; W. Gunn, 21 Third Ave., \$10.00; J. C. Shillington, 19 Third Ave., \$8.00; J. Austin, 36 Church, \$7.00; and the following awards of \$5.00 each: M. Brisee, 21 Fourth Ave.; G. Ruller, 28 First Ave.; C. Terry, 12 Riverview; C. Shaller, 55 Poplar; F. Spencer, 39 First Ave.; E. W. Gilchrist, 28 Church; R. Davidson, 35 Second Ave.; M. Ayotte, 114 Larch St.; J. D. Wright, 52 Third Ave.; W. Wirvryzn, 24 Nickel; W. Bushnell, 14A Sixth; D. White, 45 Cedar; R. Kaljumaa, 52 Pine; W. D. Kennedy, 18 Third Ave.; J. Ranger, 148 First Ave.; P. Corkal, 79 First Ave.; W. O'Neill, 55 First Ave.; C. B. Allen, 100 Ash St.; P. Millar, 51 Third Ave.; M. Tuomi, 32 Third Ave.; R. Moir, 24 Fourth Ave.; J. H. Kennedy, 37 Cedar St.; G. Paahko, 17 2nd Ave. S.; J. Smith, 20 Nickel St.; P. Bartol, 30 Copper St.; A. Lefebvre, 44 Mountain St.; M. Koski, 49 Balsam St.; A. H. Palmer, 46 Cedar St.; A. Kacymiski, 4 Fourth Ave.; E. J. McVior, 68 Third Ave.; W. C. McGowan, 40 Third Ave.; D. Vachon, 22 Fourth Ave.; H. Schneider, 25 First Ave.; A. J. Beaupre, 101 Ash St.; G. Tulloch, 53 Third Ave.; H. Melanson, 10 Nickel; J. Donaldson, 81 Poplar; L. V. White, 24 Third.

## Lively

John Dingwall Sr., 249 Ninth, \$20.00; H. J. Squirrel, 241 Twelfth, \$15.00; J. Walker, 203 Third, \$12.00; D. Wright, 206 Third, \$10.00; J. Archibald, 207 Fifth, \$8.00; H. R. Doddo, 251 Eighth, \$7.00; D. Yawney, 276 Birch, \$6.00; and the following awards of \$5.00 each: J. A. Hutton, 247 Ninth; A. Jarbeau, 259 Tenth; A. K. Young, 297 Birch; C. Lyons, 244 Eighth; H. D. Cameron, 264 Tenth; M. C. Kossatz, 256 Twelfth; A. H. Gloss, 310 Eleventh; L. Turner, 295 Sixth; Russell Brown, 209 Second; V. Morbin, 253 Eighth; W. E. Frizell, 287 Birch; T. H. Duncan, 226 Third; R. Lapierre, 245 Twelfth; L. Tofoff, 270 Tenth; L. Emon, 243 Twelfth; C. L. Brooks, 219 First; D. G. Nairn, 226 Second; F. W. Clapcott, 235 Eleventh; C. Wilson, 278 Eleventh; E. Plaunt, 237 Seventh; J. G. Strasser, 212 Third; G. K. Allan, 611 Queen Elizabeth; George Fleming, 297 Sixth; J. Oliver, 245 Ninth; R. T. Blanchard, 287 Pine; H. Shovelier, 327 D St.; W. Tuttle, 275 Eighth; J. C. See, 254 Eighth; R. Wrywas, 240 Tenth; J. Dyck, 205 First; F. Huska, 203 Fifth; L. A. Blake, 251 Twelfth; M. E. Laplante, 252 Twelfth; W. J. Koch, 244 Eleventh; W. Otley, 254 Twelfth; A. Keller, 208 First; J. Klever, 206 Eleventh; P. Bugg, 275 Tenth; H. A. Maddison,

258 Eighth; N. E. Korpinen, 274 Seventh; M. Somerville, 285 Sixth; Orest Andrews, 301 Sixth; R. Goard, 283 Pine; M. D. Head, 301 Birch; C. R. Cupp, 635 Main; R. Lavigne, 194 Ninth; M. T. Dunn, 606 Main; F. Kuchinski, 238 Ninth; T. J. Mulligan, 240 Eighth; L. Wingrave, 272 Eleventh; E. J. Tovey, 269 Eleventh; H. Moore, 279 Eleventh; S. J. Roy, 258 Tenth; A. O. Ahonen, 277 Sixth; R. Buntin, 250 Sixth; A. Quarell, 559 Main; J. L. Hunter, 240 Eleventh; P. Dumencu, 283 Sixth; R. D. Leisk, 206 First; W. McAlpine, 225 Fifth; K. A. MacDonald, 222 Second; J. Dawson, 280 Eleventh; W. A. Bond, 308 Eleventh; A. E. Heppner, 252 Tenth; E. Frattini, 278 Tenth; D. Crouse, 280 Eighth; A. Blackwell, 233 Eighth; A. J. Roy, 318 Tenth; B. J. Weber, 292 Pine; E. Nicholson, 290 Pine; M. L. Brooks, 622 Main; J. K. Conibear, 190 Sixth; C. G. Rawson, 244 Ninth.

## Murray Mine

W. Vaananen, \$10.00; A. Beach, \$7.00; J. A. C. Clubbe, \$5.00; W. Sokoloski, \$5.00.

# As a Farmer He Was Good Miner

After reading an advertisement in Poland in 1927, Mike Zyma signed for the wheat fields of Manitoba but when the train reached Sudbury he got off by mistake, walked to Coniston, and looked up some of his countrymen established there.

When he had learned enough English to get by, Mike landed a

job at Creighton. He was laid off in 1932 owing to the depression, and took the opportunity to pay a visit to his homeland. By 1936 he was back at Creighton as a permanent institution, remaining there until his retirement on pension this summer. For the past 10 years or more he was a shaft inspector, taking pride in having the qualifications for this important work.



Mr. and Mrs. Mike Zyma

Married in 1926, the Zymas have two children: Adell, who is the wife of Pete Platsko of Creighton No. 3 shaft, and Zenes, who attends high school and is one of the few boys in the world with the initials Z. Z.

Mike has moved to Hamilton where he has invested in a little restaurant with poolroom attached. He'll be delighted to see any of his old friends and acquaintances there at any time, especially as paying customers.

# Matt Zimmerman Has Retired



"Army" Armstrong, yard and transportation foreman, and Joe Bischoff, works metallurgist, with Matt Zimmerman (centre) with the wooden miniature of an anode furnace slag pot presented to him at his retirement party.

Foreman in the pig storage department at the copper refinery throughout his 26 years of service except for the first few months after he joined up, Matt Zimmerman recently retired on service pension at the age of 60.

Born in 1895 in Yugoslavia where his father operated a big farm, Matt by the time he reached 16 was running farms where, at harvest time, as many as 30 teams of horses and a hundred men were employed, producing food for the army.

Coming to Canada in 1920 he tried several jobs and then headed for the States, but returned three years later convinced that Canada was the country for him. Eventually he became a sticker at Swift's, where on good days he would per-

form this operation as many as 2,000 times. Finally wearying of the slaughter and of rambling, Matt came to Sudbury in 1929 and the following year found the peaceful, friendly place he was looking for at the copper refinery.

Over the years Matt has shown sound business acumen and is now the owner of several properties that require considerable of his time. This coupled with gardening and his camp at Milnet will keep the days well filled for him but he'll always have time to miss the old gang back at the refinery.

Matt has three children, young Matt and Evelyn, both of Windsor, and Eddie, who is with the RCAF at Halifax. Periodic visits with them make life really worthwhile, he says.



Against a background of some of the periodicals they summarize in their semi-monthly Current Abstracts are Dzinttra Sinhuber, assistant librarian, and Ken Robb, librarian, of the research laboratory in Copper Cliff.

## Issue Regular Summaries of Wide Technical Information

Twice monthly for the past 10 years Inco executives, department heads, mine superintendents, operating, geological, safety and other departments have received their yellow jacketed copy of Current

Abstracts, one of the many service features of the research library. This dittoed digest of what's cooking in the geological, metallurgical, mining, ore dressing and a host of other related fields, saves

countless hours of reading or scanning by busy men and also quite frequently points up some item of interest or value that might otherwise be overlooked.

Inco subscribes regularly to some 85 technical periodicals in addition to government reports, technical society reports and other complex data. Wading through this welter of formulae, theories, methods, inventions, improvements, etc., of a thousand and one operations, librarian Ken Robb manages to extract the essence of anything that might be of special interest at Inco.

Ken's instinct in deciding what is of value or not is something even he has difficulty in explaining, but this talent appears to stem from more than 10 years of technical reading, observing and filling requests for information and facts.

When an article catches Ken's eye he marks it and later these articles are transcribed in a condensed form, or abstracted. The word abstract is defined as a summary which shortens yet retains the essential features of a larger work, and that is one of the duties Ken performs for all branches and departments of Canadian operations.

Shortly after World War II considerable technical knowledge, hitherto on the secret list, was released and made public in many trade journals. With so much material available it was decided at Inco to abstract anything of interest in order that Inco operators and researchers be kept abreast of this sudden surge of industrial know-how that was sweeping the land. At present the library files contain reference to about 15,000 abstracts filed and cross indexed so that Ken or assistant librarian Dzinttra Sinhuber may quickly track down any elusive article. That they are always able to ferret out the information required is a comforting thought to Inco technicians.

Each issue of Abstracts contains an average of some 125 items on everything from safety and personnel to the most complex phases of metallurgy and even on to

## British Visitors



Interesting visitors to the reduction plants at Copper Cliff were 40 boys from the grammar schools of London, Glasgow, Birmingham and Bradford, sent to Canada by British industrialist W. H. Rhodes to broaden their education. Seen above chatting with Jim Lee, mill superintendent, are Colin Westmoreland (London), Robert Buchanan and Douglas Ross (Glasgow).

nuclear physics. In addition to Canadian distribution copies go to New York, Huntingdon, Mond, Johannesburg and Australia, the latter two countries to resident geologists. New York and Mond issue an abstract of their own dealing with the fabrication and industrial application of the many metals produced by the Company. Copies of these abstracts are on file at the Copper Cliff research library.

Should someone be interested in an item in Abstracts a copy of the periodical containing the complete article may be had from the library. Some magazines are in such demand (the Mining Congress Journal for instance) that multiple subscriptions are necessary.

In addition to periodicals, technical books may be borrowed from the library. Ken admits that by and large people are pretty good at returning books and periodicals although there are a few exceptions. These delinquents first have their memory jogged with a reminder card which, if no results are forthcoming, is followed by a phone call. The library contains well over 1000 volumes.

## Delicate Point Raised

In the closing golf tournament of the season at the Port Colborne country club, Nels Boyer of Inco's nickel refinery received a prize for being the most honest golfer when he handed in a score of 115.

If the magnitude of a golf score is a yardstick of honesty, Diogenes would have had a field day at the annual Inco tournament at Sudbury's Idylwyde, but such a modest tally as 115 would hardly have come to his notice.

Readers will be wondering if this proves that the golfers in the Company's northern divisions are more honest than their cousins to the south, or better at arithmetic, or what.

When a man is in earnest, and knows what he is about, his work is half done.

## Copper Cliff Legion Again Operated Boys' Baseball League



Under the direction of Art Van Allen, chairman of the sports committee, Copper Cliff branch of the Canadian Legion operated a thriving pee-wee baseball league during the past summer. Seen here with some of the players are two members of Art's committee, Doug Gathercole and Bub Jewett, and occupying the seats of honor on the bench are the winning team.