

Hunters Homing at Sunset, McGregor Bay



Ancient and Modern **Metal History**

*(Abstracted from an article "Homoric Metal-longy" by T. A. Rickard, Canadian Mining and Metallargeal Balletin, March, 1949). An interesting mention of iron is made in a

the Iliad in connection with the games organized to honour the funeral of Patroclus, the bosom friend of Achilles, who gave the prizes to be awarded to the winners. Among other prizes, he brought forth a mass of iron. which, it is said, the mighty Ection used to hurl. Achilles had slain him, and thus came into possession of this strange lump of iron. The quantity of iron would suffice, says Homer, to provide tools for the winner's shepherds and ploughmen during a period of five years. This lump of iron was used in a contest resembling "putting the shot", and therefore might have weighed about sixteen pounds. We are told that it was a large and heavy lump of self-used iron. It must have been a meteorite. If so, it was nickel steel. It was the best metal that man had at his service until the nickel alloy steel was manufactured in 1890, in imitation of meteoric tron.

Thereby hangs a tale: In 1887 when copper ore was being shipped from Sudbury, Ontario, by the Canadian Copper Company to the Orford smelter, at Bayonne, New Jersey, it was discovered that the ore contained an unfamiliar metal, which was unwelcome and troublesome. It was recognized as nickel. What was to be done with it?

John Gamjee, an Englishman endowed with inventive genius, accompanied by Samuel Ritchie, the head of the Canadian Copper Company, had visited the Smithsonian Institution, at Washington, for the purpose of examining the meteorites in this museum. They were impressed by the density and hardness of the celestial metal. Was the nickel content the critical factor in contributing to these valuable qualities? Soon after-ward Gamjee devised a cure for yellow fever that involved the exposure of the patient to a very low temperature on shipboard. Castings for the ammonia engine of his refrigerator proved too porous, whereupon Gamjee recalled the meteorites in the museum, and made experiments with alloys of steel and nickel.

At length he produced a "perfectly pure mass" of metal that ran into moulds and ytelded castings able to resist a very heavy pressure. It is recorded that Ritchie, physic-

THE FRONT COVER

young cameraman responsible for the fine picture on the front cover of this issue of the Triangle. He made the snap at Mac-Gregor Bay, and when he couldn't identify the people in the boat we naturally assumed that they were a certain pair of hunters we lists. know, because we can't see that they have any ducks with them. Can you?

Waide of Frood-Stble time office.

The Bowling Club, Port Colborne



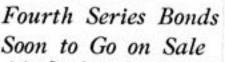
ally a powerful man, swung a 70-pound steel plant, which he steadily expanded to sledge-hammer upon a piece of this ferro-nickel and failed to dent it. Thereupon he negotiated with General Benjamin F. Tracy, the Secretary of the United States Navy, with a view to supplying nickel steel for the armour-plate of battleships. Tracy arranged for the production of such a plate at the Creusot works, in France, and, at the same time, caused a plain steel plate to be made. A similar steel plate was supplied by Cammell & Company, of Sheffleld. These three steel plates were then tried at the American navy's plant at Annapolis and subjected to the shock of the severest ballistic tests. The two ordinary steel plates were smashed to bits, whereas the nickel steel plate from Creusot remained intact. At the request of the Canadian nickel.

This contract gave world-wide publicity to the mines at Sudbury and saved the Canadian Copper Company any further trouble in making more tests. Other governments followed the lead of the United States. Nickel had arrived! The alloy thus produced was an imitation of the meteoric iron; and it was the best metal that had yet been available to man.

huge proportions.

One of the notable developments of recent years in Canada has been the cultivation of the thrift habit through the purchase of government bonds by the Payroll Savings Plan method now adopted by most leading companies. Hundreds of thousands of Canadians, including many in our own Company, first started a systematic plan of saving in this way, and have kept it up ever since. Everyone has something to save for, even though we can't all be Carnegies.

The new Fourth Series of Canada Savings. Bonds will shortly be on sale and Inco is again making the Payroll Savings Plan available to all employees. The plan is designed to make saving easy-and it does. You hard-General Tracy, the American Congress voted by realize you are saving until one day you an appropriation of \$1,000,000 to purchase get your bond and your savings in a chunk. Andrew Carnegie never had it half so easy!



Andrew Carnegie, of steel and library fame, is credited with saying "Give me the man Jack Shea of Sudbury is the accomplished who saves-and then makes sure that his savings work for him.

Starting without education or money. Carnegie became one of the world's great builders of industry-as well as one of the world's greatest educators and philanthrop-

He himself was the perfect example of his own credo. Through his Scotch ancestry he Incidentally, if Jack needs any further probably inherited his instinct for thrift, and introduction, he's a brother-in-law of Dick out of the wise use of his small early savings. he bought his first small share in a small



TRANSIENT AT MURRAY

Unusual visitor in the warm room at Murray Mine one day was this feathered friend, which calmly perched on the back a chair while its picture was taken. We wondered who was getting the bird.

In the old days, the man who saved money was a miser; nowadays he's a wonder. -Sunshine Magazine



Day by day, in every way, Inco families are looking better and better. For example: (1) Mr. and Mrs. A. Picard (Copper Refinery) with Raymond, 2, Aline, 6, Andre, 18 mos., and Maurice, 3. (2) Mr. and Mr. T. M. Crowther (Copper Cliff Safety) with Sharon, 6, and Tommy, 10. (3) Mr. and Mrs. Gordon Disley (Frood-Stoble Electrical) with Pat, 2, and Barbara, 5. (4) Mr. and Mrs. Joe Ribic (Levack) with Jane, 4, and Joe Jr., 2. (5) Mr. and Mrs. Mike Wakunick (Port Colborne) with Linda, 3, Isabel, 5, David, 1, Michael, 8 and Bobby, 7. (6) Mr. and Mrs. Bill McCormick (Creighton Survey) with Marlene, 6, Emily, 12, and Bill Jr., 4. (7) Mr. and Mrs. J. A. Butler (Copper Cliff Mechanical) with Redvers, 18, Bobble, 14, Gail, 9, and Ricky, 5.









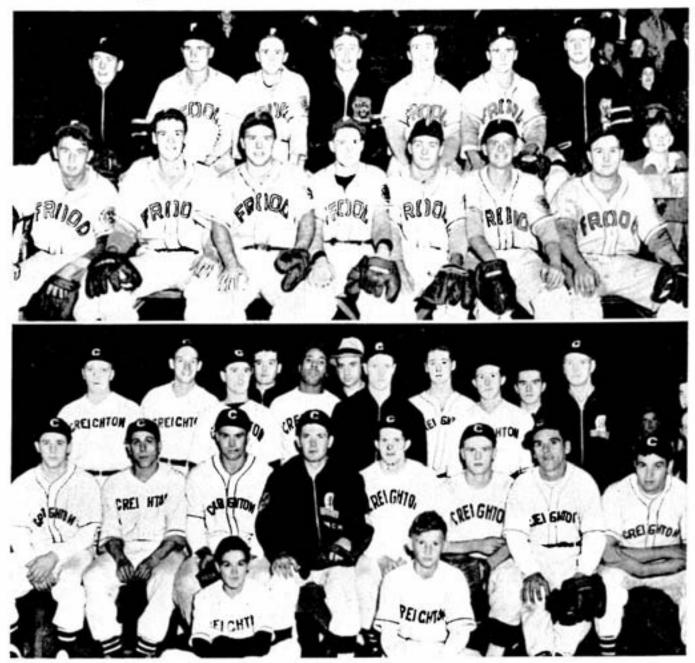






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Frood Tigers Take Thrilling Seven-Game Series



Creighton Made Mighty Effort

In a great seven-game series that had everything from bobbles to brilliancy, and plenty of each, Frood Tigers retained the Nickel Belt baseball championship and the Monell Trophy. Almost 5000 fans saw the final game in which the Tigers, behind the sizzling slants of Glen Seeley, bested Creighton Cubs 8-5.

really started to fight, and then the series apiece. turned into a thriller that crowded Joe Stalin's new atom bomb right out of the Conversation wherever you went. Big Earl business. In the first inning Frood com-five nights Brandy went to the hill and

Here are the two teams which staged such a rousing series for the 1948 Nickel Belt baseball championship and the Ambrose Monell Trophy: THE WINNERS AND STILL CHAMPIONS, FROOD TIGERS: front row, Norm

Flowerday, p.: Dick Trainor, utility: Bill Huntley, c.; Gerry Wallace, coach, 2b.; Harry Marchand (he's not really asleep) 3b.; Pete Riggin, 1b.; Tobin, ss.; back row, Spike Wormington, p.; Johnny Zimany, p.; Billy Brown, cf.; Glen Sceley, p.; Bert Plouffe, rf.;

Billy Demkiw, If.: Jack Duyrestyn, p. THE FIGHTING RUNNERS-UP, CREIGHTON CUBS: front row, Jimmy Connors and Yawkey Saftie, mascols; Izzy Girard, ss.; Art Carbone, Ib.; Dip DiFillippo, outfield; Earl Brandy, coach and p.; Bobby Rivard, 2b.; Bernie Kallies, c.; Paul Girard, If.; Cap Cappelletti, 3b.; back row, George Curry, asst. coach: Bill Jewett, utility; Ev Staples, utility; John Mynerich, trainer; Buz Farmer, outfield; Stan Fera, treasurer; Lefty Gutjahr, p.; Snug Mynerich, p.; Hurlie Hreljae, outfield; Frank Truskoski, scorer; Gord Luck, p. and outfield.

You had to hand it to that Creighton out- gue, was the hero of the piece; he pitched lead, but bounced right back with four singles fit-they were terrific even in defeat. Frood the Cubs to two victories in three nights, in their half of the stanza and went ahead had them down 3 games to 1 when they and the tally was all tied up at three wins 3-2. Gordie Luck, who started for Creighton, was shelled off the mound in the second

Brandy, two-year strikeout king of the lea- mitted four errors to give the Cubs a two-run allowed only four hits over the rest of the

route, but Tigers had a fat lead and they were never headed.

It was Frood's third consecutive appearance in the Monell Trophy series. They were beaten by Shamrocks in 1947 and trimmed Consiston in 1948. They're a powerful ball club and never more dangerous than when the heat is on. They're worthy champions. The last game of the series was a tough

climax to the season for Creighton's Gord Luck, who won the Frood Hotel Cup as the lengue's best pitcher with eight wins against one defeat. A quiet guy who is also a great hitter and outfielder, Gordie is a perennial favorite with players and fans alike. For the third year in a row he finished third in the voting for the most valuable player.

Chunky Bill Huntley, the Frood catcher, won the Wiggy Walmsley Memorial Trophy, emblematic of the league batting championsh.p, with an average of A15. He was in typical form in the last game of the title series when he hit for four out of five. Two of Huntley's team-mates, Bert Plouffe and E:11 Demkiw, were in second and third place with 384 and 365. Harry Marchand of Frood tatted in the most runs, 35, and Aurele Blake of Coniston was the home-run king with five circuit bingles.

Wallace Most Valuable Player

With 59 points, only one short of a unanimous decision, Prood's Gerry Wallace was picked by his fellow coaches as the most valuable player to his team during the 1949 stascn, and wins the Roffey award. Tug Parri of Shamrocks was second, Gord Luck of Creighton third, Harry Marchand of Frood

fourth, and Art Carbone of Creighton fifth. Generally acknowledged the best second basemen who ever played in the Nickel Belt, Wallace with his ability and great competi-tive spirit has done a lot for 'asseball in his 12 years in these parts. As playing coach of the 1949 Tigers he has proven himself a smart leader as well as a powerful hitter and a deadly infielder. He fully deserves the distinction which his fellow coaches so emphatically accorded him.

Ron Silver, Bill Lake Inco Golf Champs

In the eight-man playoff to decide the 1949 Inco golf champion of Sudbury District, the result of the final match was a foregone conclusion: the surname of the winner would be Silver.

For the second time this season it was Art against Ron with a golf title at stake. The mining and mashle-wielding Silver brothers duelled for the Idylwylde championship, which Ron wen. In the showdown for the Into laurels he turned the trick again, although Art forced him to the 21st hole before bowing out.

Another close match featured the final of the Inco handicap championship, which saw Bill Lake of Garson edge out Joe Bell of Open P.t on the 18th green.

The eight players competing in each draw were the top handicap and non-handicap scorers in the Inco tournament on August 13. Prizes for the finalists were fabricated of and quite another to roll around a ring Inco copper and Monel.

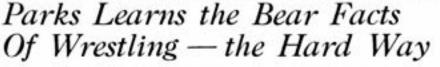
WHAT'S IN A NAME?

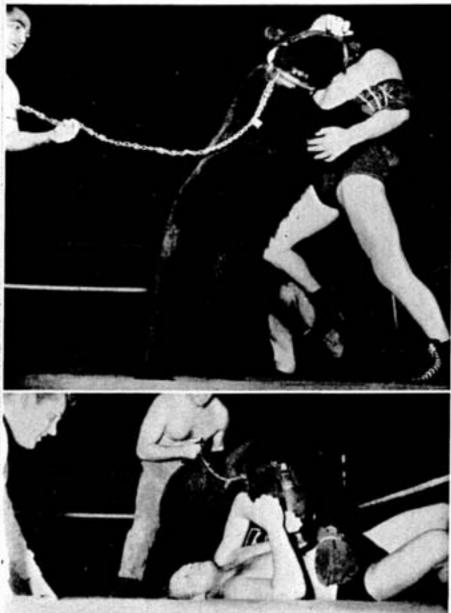
"Ford," replied the lad. 'And your first name?

Henry.

"Henry Ford, eh?" remarked the manager with a smile. "That's a pretty well-known for a year and a half in the gentle pastime name

The boy looked pleased. "Yes sir, it ought to be," he replied proudly. "Twe been delivering groceries around here for two years finally pinning his man after 12 minutes of DOW.





At the Inco Club on the evening of Sept. 19, in the presence of some 1500 blood-thirsty customers, Herb Parks of North Bay learned the bear facts of wrestling.

Herb had been on the mat many times before, but he never really knew what fur. Now he knows. It's one thing to "cut a rug" with the "rug" cutting you.

Three hundred and fifty pounds (at sea level) of fighting bear steak, Gorgeous Gus "What's your name?" the store manager of Alaska wowed the crowd out of their seats asked the young applicant for a job recently. in the final match of one of Vern Tupling's best grunt-and-groan flestas todate. Gtas supplied the grunts and Herb put in the groans.

Captured as a cub by Billy Fox and coached of wrestling, Gus really knows his stuff. The crowd loved the way he gave the business to his opponent, matching hold for hold and highly scientific endeavor.

Hardly Sporting, Old Chap

They had a leather muzzle on his snout, and leather mitts over his claws, and there was some murmuring among the customers at this cruel handicapping of a poor dumb animal fighting for his vittles, but Citizen Parks was not one of the murmurers. He staggered out of the fray with a dated look on his face, bear hair between his fingers, and some quite bloody scratches on his heaving bosom.

True to the traditions of the bad men of wrestling, Gus gave Referee Larry Kasaboski a going-over after the battle with Herb was done, ripping the official's nice white shirt to shreds and driving him fear-crazed from the ring. Only then did he consent to recline on the mat and guzzle the bottle of orange pop thrust into his paws by his trainer's proud and happy wife.

"It's one way of making a living," Gus told us in his den later. But could you bear it?

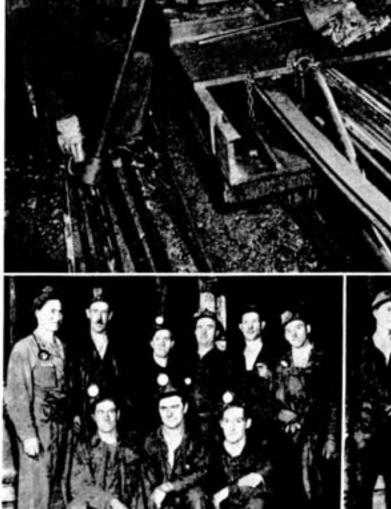


Creighton Men Set New Inco Drift Record

Three crews of Creighton miners, working smoothly to a well-organized schedule, established an outstanding Inco record in driving a 1921-ft. conveyor drift on 30 level between No. 3 Shaft and the location of the new No. 7 Shaft.

Really giving their special assignment "the works", the Greighton crews advanced the drift an average of 515 feet per month plus cutting safety stations at 100-ft. intervals, and reached their peak during August when they pushed the 9x10-ft. opening a total of 524 ft. Previous Inco record of 417 ft. was hung up in September of 1942 in driving the lox11-ft. drift connecting the Prood and Stoble Mines on 2400 level of the Prood.

On June 20 the crews and equipment were organized and sent into action in the new Creighton drift, which had already been driven 349 ft. They commenced advancing on a round-per-shift basis, working three shifts. They drilled off, blasted, and mucked a 7-ft. round per shift, and also, as they progressed, installed air and water lines for the drills and two 12-in, ventilation pipes, hung on pins in the centre of the arched roof, to pull out the smoke from blasting. They completed the drift on September 21 after removing a total of 13,230 tons of rock. The men of all Inco mines will take off their hats to the Creighton boys on this note-





Another Big Development at Creighton Mine



There's been quite a change in the scenery since that rainy day last November 3rd when the first round was drilled for the collar of Creighton Mine's new No. 7 Shaft. On the left is the crew which launched surface activities in Creighton's big development program, with No. 3 Shaft in the background, and on the right is a picture of the same spot today. A handsome concrete headframe has been erected, and concrete footings for a 6,000-ton concentrator are being poured. The new plant is scheduled for production in the summer of 1951.

worthy achievement.

of a 7-man crew is seen in action in the drift. Their jumbo drilling rig, for which the truck was designed and made in the Creighton shops, carries three machines mounted on hydraulic booms which are raised and lowered by the operator at the controls. The miner at the left is changing bits on drill steel.

An unusual feature of the operation was a double-track installation for tramming the muck, with a portable switch near the face on which the cars were switched as the mechanical loader filled them. Average tramming distance was 3,700 ft.

In the pictures of the three record-breaking CIEWS BIC:

2. (front) Ernie Levesque, Eddle Moffatt (captain), Tauno Maki; Sam Slobodian, Dolph Charbonneau, Pat Stephens, Hewson Lehman, Jack Labine, Germain Besner, Emil Pera (shift boss).

3. (front) Ted Unruh, Gerry Gauthier, Armand Charron; Erin Holmes (shift boss), Alf Hearn, Joe Krol, John Mihalic, Ken Adams, Dave Peterkin.

4. (front) Pete Kubisewsky, Gordon Clarke, Eldon Robinson; Alf Emblin (shift boss) Mike Macoritto, Fred Osmachenko, Henry Villeseche, Albert Dupuis, Les Armstrong.

A complete departure from Inco's regular underground tramming system of mine cars and locomotives, the 3-ft. conveyor to be installed in the drift will be 1,842 ft. long and will have a capacity of 700 tons per hour. Longest Inco conveyor at present is 891 ft., above the receiving bins in Copper Cliff Concentrator.

Part of Big Development

The conveyor installation is part of an extensive development program at Creighton for the recovery of a large body of lower grade ore, mining and processing of which has been made economically possible by Inco's improvements on mining and metallurgical practices. The program includes the sinking of No. 7 Shaft and construction of a 6,000-ton concentrator. The new operation is scheduled for production in the summer of 1951

Mined by the caving method, in which, large sections are undercut and allowed to

break of their own weight, the lower grade In No. 1 Picture on the opposite page, part ore will be crushed at 28 level of No. 3 Shaft and dropped down through a concrete-lined bin to the conveyor belt on 30 level, which will carry it to an ore bin and loading station at No. 7 Shaft. From there it will be hotsted directly into the concentrator for secondary crushing and separation by flotation.

No. 7 Shaft, 8 x 24 ft., will be sunk 2,000 ft. and will have three compartments, two for skips and one for pipes and manway. Sink-

Concrete footings for the concentrator are now being poured.

Recovery of lower grade ore at Creighton will not disturb the mine's regular production, which at present is at the rate of about 5,000 tons per day. Preliminary exploration by diamond drilling, to determine the grade and quantity of the lower grade reserves was carried out in 1943; by 1947 the mining and metallurgical techniques for handling that type of ore had been worked out, and by ing of the shaft will be speeded up by a raise November of 1948 the program had been driven from 30 level. The shaft has been planned in sufficient detail that drilling could collared and the concrete headframe erected, commence for the collar of the new shaft.



A six-mile pipeline from the Vermillion Six-Mile Watermain River will bring 3500 gallons of water per minute to Creighton's new concentrator. A Fraser-Brace crew is seen laying the 20-in, watermain from the mine to the river. It will contain about half a million feet of Douglas fir, banded by 61,000 hoops.





Air Cadets Get Classy Course Of Training in Local Squadron

With an enrolment at time of writing of background. In the circle of observers are dian Air Cadets is pressing steadily toward John Delongchamp, Lac Doug Clair. its goal of 200 boys in uniform.

And it's not hard to understand why so every Tuesday and Priday evening. The of recruits. Navigation is taught by FO broad and well-organized program of in- Walter Johnson. struction and training, the smart un.forms,

transmitter, regulation equipment in bombers. Terry Howard, Ken Parker, Tom Trainor, such as Halifax and Lancaster, Sgt. Allen Vic Crawford, and Ray Gatien. Taylor and Lac Paul Martin demonstrate 4. A smart-looking squad tai Taylor and Lac Paul Martin demonstrate 4. A smart-looking squad takes rifle drill for a class in radio theory, conducted by FO from FO Don Ross. Note the buckets of Jim Theriault, who is seen in the centre

155 cadets, 70 of them recruited this fall, WO2 Barney Cook, Cpl. Andy Pournier, Lac 200 Sudbury Squadron of the Royal Cana- Jerry Hutchison. Sgt. Tom Graham, Lac

Recruits Get First Eyeful

2. FO Ken Connelly, who served in North many young fellows between 14 and 18 years Africa as an air gunner, gives a lecture on of age head for the St. Clair St. Armouries the 303 Browning machine gun to a group

3. An ignition harness for a Harvard and the air force atmosphere combine to trainer is studied by the elementary flight in form a highly magnetic attraction. aero-engines and airframe. On the left is In the accompanying picture layout are the instructor, FO Hugh Mulligan, and the shots of some of the activities during a typical boys in the flight, from left to right, are Air Cadet evening: Lac's Ersc Lefebvre, Ron Vance, Bruce 1. With an AR2 receiver and an AT1 Hutchison, Regis Spencer, Tom Schumacker,

(Continued on Page 10)



44 Reasons Why Life Can Be Beautiful



Air Cadets Get **Classy Course**

(Continued from Page 9)

water on the right, probably kept handy in case the guns get too hot.

5. First Aid is an important part of Air Cadet training. Here FO Gordon Hubbard shows how to apply splint and bandage to a fractured forearm. In the class are, left to right, Sgt. Terry Maloney, Fit. Sgt. Roy Edey, AC2 Bill Crawford, Cpl. Andy Pournier, Lac Doug Clare, AC2 Bob Shoveller, Lac John Delongchamp, Lac Paul Martin, and Sgt. Tom Graham.

6. While the Supply Officer, PO Harry 6. While the Supply Officer, FO Harry Forster, stands by to make sure the new man gets a good fit, Sgt. Allen Taylor issues a uniform to AC2 Alf Simmons, a recruit. In the right background Sgt. Phil Simard, orderly room sergeant, is busy with his notes while Fit. Lieut. Eric Mulligan (right) con-temportation of the second second second second temportation of the second seco fers with FO Gordon Hubbard.

7. With WO1 Len Bolger (centre) doing the instructing, a class in model airplane building holds the close attention of AC2 Bill Rannelli, Sgt. Tom Graham, Lac Regis Spencer, AC2 Art Desabrais, and Lac Tom Schumacker

8. One of the special advantages available to members of 200 Squadron is the opportunity to study photography. In this picture Karl Niemi, well - known Sudbury photographer who served with the R.C.A.P., ex-Spencer.

A stickler for discipline but also a man who knows how to keep things interesting for young fellows, he appears to be an ideal R.M.C., Kingston.

HOLLYWOOD PAPERS PLEASE COPY! Here's a picture of most of the girls in Inco's general offices at Copper Cliff, obvious explanation of why the men find it such a pleasant place to work. Left to right:

Front row, Doris Wilkie, Eileen Davidson, Dina Biondi, Jo Travaglini, Maureen Brannigan, Edna Johnston, Naomi Perras, Eileen Van Allen;

Second row, Nora Bargnesi, Thelma Blaney, Joyce James, Elsa MacDonald, Joyce McClellan, Dina Minardi, Connie Rogers, Mary Whalen, Janet Prieur, Mildred Fram, Louise Schofield:

Third row, Mary Ovens, Mary Coleman, Catherine McKenzie, Miriam Hervey, Phyllis Winters, Shirley Leclair, Shirley Kampi, Marjorie Pawson, Bette Maddock, Veronica Sauriol, Maureen Lowney, Therese Trainor, Wilma Tiplady; Fourth row, Hilda Leigh, Lenore Beaver, Dorothy Hawke, Cleda Mei, Audrey Lyman, Un Wannel Was, Participation (2019)

Lily Kauppi, Kay Perguson, Molly Weir, Joyce Green, Betty Pilon, Kay Thomas, Irene Lindberg.

choice to head this important branch of Canadian youth training in Sudbury District. from its incep1 on in 1942 until this year was Working closely with his very capable staff Sudbury Rotary Club. This responsibility of officers and instructors, he has the project has now been taken over by Wing 402 of the well in hand.

Parents' n'ghts, motion pictures, theatre parties, and sports are among the special St. Clair St. Armouries he was right on the items on the Air Cadet program. A monthly job, keenly interested in every phase of the squadron newspaper has been started with FO Hubbard as editor.

Scholarship Inducements

career are the scholarships offered as follows: (1) Cadets who attend squadron meetings for three or four years, and whose academic standings are exceptionally good, are awarded \$600 scholarships which entitles them to four years of Royal Military College training at either Royal Roads or Kingston.

(2) A scholarship which entitles the cadet to first year aeronautical training at Toronto. (3) A flying scholarship which provides for plains some dark-room mysteries to Lac one month's training at an R.C.A.P. spon-Claude Legace, Sgt. Tom Graham, Lac Ron sored air school. During the course the Vance, Lac Tom Schumacker, and Lac Regis cadet takes about 40 hours dual flying and about four hours solo.

Fit. Lieut. Eric Mulligan, D.P.C., is com-manding officer of 200 Sudbury Squadron, college training are Len Bolger, Robert Fraser and Bill Hough, all of Sudbury. Hough is at present in his second term at towel. As usual there was a heavy entry in

Sponsoring committee of the squadron R.C.A.F. Association, of which Al Sangster is president. When the Triangle visited the activities.

Outstanding feature of the Air Cadets for Cliff Men Winners In Fishing Contest

Two Copper Cliff fishermen figured in the prize list of Cochrane-Dunlop Hardware's 1940 fishing contest.

Moxam tied for third place in the Α. speckled trout section with his 5 lb.-2 oz. entry and received a fishing barometer. J. E. Sloss won second prize in the rainbow trout event with a 7%-15, beauty and was awarded a sports jacket.

Biggest speckled trout entered in the contest, 5 lbs. 8 oz., won a sports jacket for Tom Mills of Texhummah, Ont. The best rainbow trout weighed 8 lbs. 6 oz. and earned a wall tent for J. H. Keesso of Listhis blue-ribbon fishing derby.



Flyers Copped Top Honors in Legion League

The 10-team minor baseball league operated by Copper Cliff Branch of the Canadian Legion has packed up after another season, in which the "senior stars of tomorrow" made their light shine in no uncertain manner.

Building a Nickel Belt player pool for the future, and at the same time providing competitive recreation to take up the slack of idle holiday hours which might cherwise produce a whale of a lot of mischief, the Legion's effort was once again an ou:standing success.

Orchids are in order for Sports Director Arn Boyd and his assistant, "Specs" Telford, Secretary Bill MacKay, and the following coaches of the Senior Group, Wally Flowers (Copper Cliff Flyers), Richae Dopson (Gatchell), Lloyd Sleaver (Copper Cliff Gunners), Bill Currie (Sea Cadets), Bill Glover (Creighton); also thes: playing captains in the Junior Group, Buddy Meaden, David Van Exan, Dennis Sanchioni, Ken Signoretti, and Jack O'Connor.

Fiyers Defeated Gatchell

Copper Cliff Flyers bagged the bacon in the senior group, defeating Gatchell two games to one in a closely fought final series. They receive the Duncan Finlayson Trophy and individual medals. Members of the team seen in the second picture are: back row, Ernie Canapini, Raymond Merrifield, Wally reply.

Podewarny, Laurie Bazinet, Louie Rossi; front row, Bill James, Lawrence Kavanaugh, Jack Johnson, Louie Rogers, Bill Duncan, Ross Weber, and Don Boyd, mascot. Missing are Don McLennan, Bryden McGhee, Frank Rossi, and Dick Pernu, as well as Coach Wally Flowers.

Flyers also produced two individual champions. Lawrence Kavanaugh again won the W. C. Sinclair Trophy for the most valuable player in the senior loop, and Don McLennan picked off the DeMarco Trophy, awarded to the leading batter, with an average of 457.

Victors in the junior section were Van Exan's lineup, photographed in the first of the pictures at left: back row, Bobby Mikkola, Leo Pevatto, Jack Rogers, Norman Rupcli, Andre LeBorgne, John Buck, and George Lamacraft: front row, Ken Harrison, Bobby Kujala, Bobby Phillips, Bobby Deactn, Pat Hickey, David Van Exan, Missing are Peter Crossgrove and Don Finlayson. They finished second in the league standing to Meaden's team but won the playoffs two games to one after eliminating the Signoretti brigade in one semi-final while Meaden was taking care of Sanchoni in the other.

Thirty games were played in the regular junior schedule at the Legion Field, and 40 in the senior.

Young Bob Deacon, whose pitching was a major factor in the Van Exan victory, was named the most valuable player in the junior league.

Led Their Teams in Hitting

Leading hitters on each of the senior teams were: Flyers, D. McLennan, 457; F. Rossi, 370, L. Rossi, 347; Gatchell, Howard, 378, Prescott, 333, Dussiaume, 324; Gunners, Lugli, 327; L. Sleaver, 323; Valentini, 312; Sea Cadets, Sharpe, 363, Galbraith, 333, Bradley, 333; Creighton, Kayshuk, 400, Mc-Donnell, 317, McLaughlin, 290.

ONE UP FOR POP

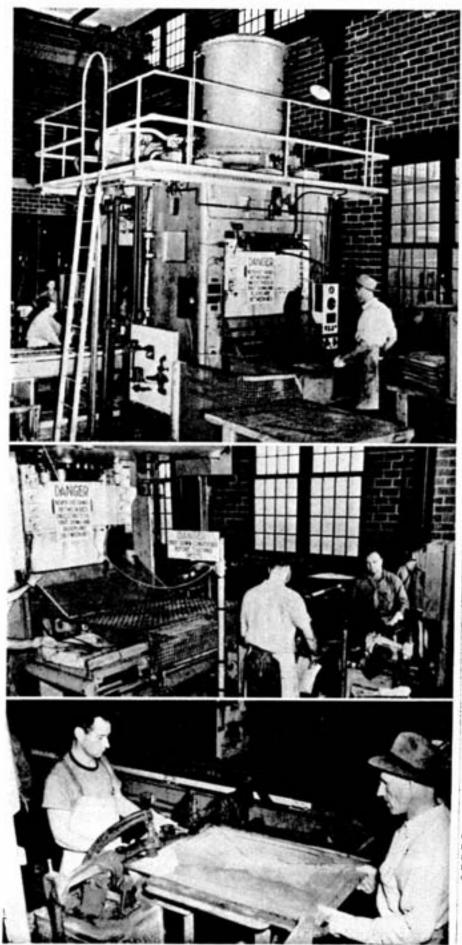
A son in college was applying pressure for more money from home.

"I cannot understand why you call yourself a kind father," he wrote his dad, "when you haven't sent me a check for three weeks, What kind of kindness do you call that?" "That's unremitting kindness," came the



One of the "Comers" A pepperpot on the Gatchell team in the Copper Cliff Canadian Legion's minor baseball loop was Delky Dorri, Seconds after the picture was made he cracked a rousing single over second base. Catcher is Raymond Merrifield of Copper Cliff Flyers and umpire is Joe McDonald, the Old Reliable.

INCO TRIANGLE



Big Squeeze Is Solution to Old Plating Problem

Installation at the Port Colborne Refinery of a hydraulic press with a capacity of 1200 ions pressure has eliminated a bugbear which had long plagued the nickel refining operaions.

Starting sheets, the thin "decoys" of pure nickel on which the cathodes build up in the electrolytic tanks, are curved when they are stripped from the stainless steel planks on which they are deposited, and the practice was to straighten them manually by a series of reverse bends.

After the starting sheets went into the production tanks, the initial plating current lended to warp the sheet, depending on the condition of the anodes, causing short cirjuits with a consequent loss of plating effitiency and an increas) in box consumption. In order to avoid this all sheets had to be lifted from the tanks within 24 hours and re-straightened, entailing the re-handling of some 3000 sheets every day. In addition to is cost, re-handling resulted in the top of the tanks being sprayed with electrolyte which salted out at the electrical contacts and raised the voltage required for the plating process.

Forms Reinforcing Offsets

The new hydraulic press neatly solves the problem. Operated at a pressure of 300 tons to the square inch, it straightens the curve in the starting sheet and forms reinforcing offsets which keep the sheet straight during the plating cycle.

First of the accompanying pictures gives a reneral view of the big press, which straightens and crimps a sheet in 6 or 7 seconds and has handled as high as 3800 in in 8-hour shift. The second picture shows the delivery end of the press, and also one of the spot-welding machines in which straps are welded to the starting sheets to suspend them in the plating tanks. Third picture gives a close-up of the spot-welding operation to show the crimps, or reinforcing offsets, which the press forms in the starting sheet.

Monarchs Seeking All-Ontario Laurels

Monarchs by name and monarchs of all they survey in Nickel Belt Mercantile league softball, the team spinsored by McLeod's Garage will represent Northern Ontario in the playoffs for the Senior B all-Ontario championship.

E. Regimbal is manager of the Monarchs. Bob Groems is coach, and the club's roater includes: Pope Bray, Leo Houle, Ovie Cyr. Al McEwan, Moon Carrol, Lud Ryski, Jack Newell, Johnny DeMarco, Ted Tyreman, Romeo Houle. George Jenkins, Laurie Boulet, Reg Regimbal, Red Duberry. Red Maltby, and Lou Prete.

ELECTRIC BLANKET

From Vancouver comes proof that the age of electricity is here to stay. It seems that an executive of the B.C. Power Commission sent an electric blanket to his 75-year-old mother; a few weeks later he received a card on which was printed the following:

"Now I lay me down to rest, Electric blanket 'cross my chest: I pray my Merciful Creator Protects the voltage regulator; So if I die before I wake. It's not, I pray, because I bake."



Jack Gallagher Had 47 Years At Copper Cliff

Holding the longest service record of any Copper Cliff employee, Jack Gallagher of Stores stepped into retirement last month with the best wishes of the host of friends he has made during better than 47 years with the Company.

A large gathering attended a farewell party at Memorial Community Hall, Copper Cliff, and many were the warm-hearted tributes to him as a staunch friend and a loyal and efficient Incoite. Among the speakers were Vice-President R. L. Beattie, W. T. Water-bury who was in his usual good form as master of ceremonies), R. C. Crouse, and Inco pensioners E. A. Collins, J. W. Garrow, J. Gribble, and J. Wilson. Presentation of an engraved gold watch and a purse of money was made by C. C. Chapman, general purchasing agent.

In expressing his appreciation Jack passed on a word of advice to the young fellows in the Company. "If you've decided to work with a big organization, you'll never find a better one than this one," he said.

Has Two Birthdays Now

Jack Gallagher was born in Barrie, and for 64 years celebrated his birthday on Sept. 11. But this year when he was getting his retirement papers fixed up he wrote to the department at Toronto for a birth certificate, and back it came showing Sept. 10 as the date on which he entered the world. "Old in th Doc Ross must have made a mistake," Jack days. "From now on I'll have to celeexplains. brate on both days, just to make sure."

Presented with Watch sold watch from his friends at his retirement party after almost half a century with Inco. The presentation is being made by C. C. Chapman, general purchasing agent. Also seen are Johnny Wilson, pensioner; R. L. Beattie, vice-president and general manager; E. A. Collina, pensioner; W. T. Waterbury, assistant to the vice-president; R. C. Crouse, general storekeeper; George Hudson and J. W. Garrow, pensioners. Vocal solos by Tommy Urwin, the boy tenor, were a hit of the gathering.

dian Copper Company at the foot of Ser- specimen of jet black "licorice" ore which pentine St., and the following July helped later turned out, to Jack's apparent dismay move the records over to the new office building which is now the town hall and converter matte. police station. His duties included making blueprints on the sidewalk in the sun, copying letters in the old letterpress, and polishing up the Company's sign on the front door with banana oil. Jas. McArthur was superintendent, A. P. Turner was chief clerk and office manager, and Fred Bernhard was assistant chief clerk.

When F. L. Shillington came along to take over the new post of purchasing agent, Jack moved to the warehouse to be his secretary. After that he had a turn as weigher at the Cobalt Plant, and then transferred to the smelter as timekeeper. With a chuckle he remembers the morning when he phoned A. P. Turner to tell him that the water tank had burned down during the night. "I'v heard of many queer things," exploded "A.P." "I've "but this is the first time I ever heard of a water tank burning!"

False Reports Were Heard Investigating the fire, "Cap" Lawson was greatly disturbed when he was told that there had been detonations in the shack beneath the tank when the blaze was at its height. "Cap" was sure somebody had been shop foreman. They have a family of five: fooling with dynamite, but Jack thinks may- J. T., of the Stores Dept.; Piland, of the be the boys on night shift had a few cool ones cached in the shack, and they exploded in the heat. Odd things happened in those

Jack did some of his best work as clerk in the Shops office and later in the office of At 17 Jack planned to enter the civil George Craig, master mechanic. They say At 17 Suck planning to enter the true true to be was a winard at looking after detail, but family friend and came to Copper Cliff, he was never too busy to give a hand to a That was on April 1, 1902. He started in as pal. He even helped Pete Ross with his or know the reason why. (Most men know a junior clerk in the first office of the Cana-

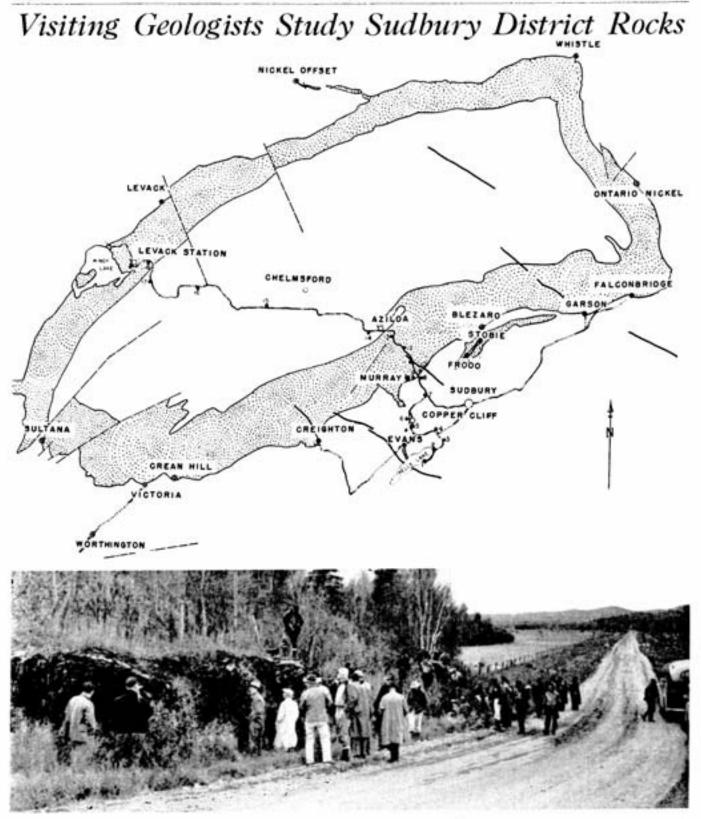
and Pete's mortification, to be a chunk of

For 11 years he was the Company's real estate agent, and in those days the appropriation for house paint and repairs wasn't anything like it is now. It was a good thing for him that he had the Irishman's gift of the soft answer that turneth away wrath, because some of those pioneer Copper Cliff housekeepers used to go after him hammer and tongs

In April of 1930 Jack transferred to the Stores office, where he remained until his retirement. Of the countless amusing incidents he recalls from that department, one of the best is his story about the hectic time that was had by all, including Purchasing Agent W. T. Waterbury, in getting a shipment of oats away to High Falls one winter day in time to save George Hartman's horse from starvation. His patience under tight rein, "W.T." finally said over the telephone, "Jack, I'm doing all I can. If that won't work they can feed him snowballs."

Has 10 Grandchildren

Jack was married at Copper Cliff in 1909 to Mary Buschman, whose father was car Mechanical Dept.; Gerald, a member of the Jesuit Order who is teaching in a college at Kingston; Mary, teaching school at Red Rock. One son died in infancy. They have 10 grandchildren.



19 Points of Special Interest on Tour

Route taken by a group of Ontario and Quebec geologists in studying a crosssection of principal rocks in the Sudbury District is indicated by 19 numbered dot on the above map of the area. The famous Sudbury Basin is shown in shaded outline. Short broken lines, such as the one near Levack, indicate geological faults, and the short solid lines like the one near Creighton are for dyke rocks—very narrow intrusive formations of great length and depth which in molten form were injected from below along planes of weakness in the earth's crust. Operating mines are marked by large black dots, non-operating mines by cross-circles. In the photograph some of the visiting geologista inspect an outcrop of Onwatin Slate near Chelmsford.

Probe Riddle of Famous "Basin"

One of the world's most intriguing geological riddles—the origin of Sudbury District ores—was high on the discussion list when 50 Ontario and Quebec geologists gathered here for a three-day session in September.

The excursion was arranged by the geological section of the Canadian Institute of Mining and Metallungy, and was under the direction of the section's local chairman, Frank Zurbrigg, chief mines geologist of Inco.

The party included economic geologists, who are interested chiefly in the location of ore and how you find it, and academic geologists, whose primary interest is how the ore got there in the first place. Both types found plenty to hold their attention in the underground and surface trips arranged for them.

In a field excursion across the famed Sudbury Basin the group saw a cross-section of the principal rock formations in this district. Travelling by bus they started their tour at Kelly Lake, went from there north to the Soo Highway, then to Copper Cliff and via the Clarabelle Road to the Levack Highway, on which they travelled as far as Levack Station: from there they walked in to Windy Lake.

Some Mysterious Names

On this route, which is marked on the accompanying map, the party inspected outcrops where 19 different rock formations could be easily observed. Each point of interest is marked on the map as a numbered black dot, and the following are the features to be seen, couched in the mystical language of the geological fraternity: 1, Mississagi Quartzite; 2, Ramsey Lake Conglomerate; 3, Sudbury Gabbro; 4, McKim Greywacke; 5 Copper Cliff Rhyolite; 6, Copper Cliff Offset (Quartz Diorite) and Creighton Granite; 7, Prood Series; 8, Elsie Mountain Formation; 9, Norite Contact with Elsie Mountain Formation; 10, Norite-Quartz Diorite Contact; 11, Olivine Diabase and Norite; 12, Transition Zone: 13, Micropegmatite; 14, Onaping Tuff; 15, Chelmsford Sandstone; 16, Onwatin Slate: 17, Onaping Tuff: 18, Micropegmatite: 19. Start of Traverse through Micropegmatite, Transition Zone, and Norite.

The average layman's chief reaction to this list will be one of astonishment that the innocent and not too inspiring contours of the district hide so many high-sounding secrets.

The geologists say that these 19 different in which is set the great riddle of the Sudbury ores.

Three Clues To Riddle

Among the many outstanding features of Sudbury geology there are three of outstanding interest to visitors:

1. The type of the deposit, in which all the ore bodies are located around the rim of a huge oval-shaped basin 35 miles long and 15 miles wide, and are in contact with the outside margin of the solid crystalline rock known as norite.

2. The rock formations which occupy the central portion of the basin beneath the farm lands. These formations are themselves basin-shaped; they are the youngest rocks in the district and, as far as Inco geologists know, there are none like them elsewhere. They are largely of volcanic ash which was deposited in bedded arrangements under water. They range in color from gray to black, and are known as the Whitewater Series.

3. The widespread occurrence of brecciasrock which in a plastic condition was forced times the expense. into cracks and fractures in the older rock and solidified there, now appearing as irregular bands and patches.

Two Theories of Ore Origin

It is felt that these and other important but less obvious features are inter-related, and if correctly interpreted would indicate the conditions accompanying the deposition of the copper-nickel ore. But the features in question can be explained in more than the Dept. of Transport exam. Some of them one way, so after 50 years of study the geologists still can't establish with certainty just have taken up flying just for sport and rewhat happened during that period, ages ago, laxation. when the earth's outer crust in what was

INCO TRIANGLE



"It's Chelmsford Sandstone" In this group of geologists taking part in the C.I.M.M. excursion in

Sudbury District last month are, left to right, Archle Mathison, Noranda; Jack Satterly, Dept. of Mines, Toronto: Frank Zurbrigg, Inco chief mines geologist: B. K. Prest, Dept. of Mines, Toronto; C. H. Stockwell, Canadian Geological Survey; J. M. Powelson, Consolidated Mining and Smelting Co. Ltd., Haileybury; J. W. Baker, Kerr-Addison, Virginiatown; G. H. Charlewood, Lakeshore, Kirkland Lake.

buckled under terrific pressure and was logy, Theory of Flight, and Aero Engines, shaken by volcanic disturbances. There are Prames and Instruments. Men who have two leading theories insofar as the origin of the ore is concerned-one that the ore was introduced from below after the norite was plane. emplaced, and the other that it was separated from the overlying norite, but there's no absolute proof of either.

However, though they may be up in the air academically the geologists have their types of rock formations form the framework feet firmly on the ground economically because, no matter which theory of its origin ultimately wins out, they know for sure where the ore is to be found with respect to the norite, and how to go about finding it. And that's what counts.

Special Course For New Pilots

second Ground Instruction School to qualify budding airmen for their private pilot licenses commenced at the Inco Employees' Club in Sudbury on October 3 with Lionel Roy as instructor. Registration is open until October 10.

For a very moderate fee the private pilot can accomplish in this 15-week course of two evenings per week what it might take him 400 hours to gain by correspondence at four

On completion of the course the pilots are examined by the Dept. of Transport: if successful in this exam as well as in their air test, they receive their private licenses, which expire only if the holder fails to pass an annual physical checkup.

The first Ground Instruction School, held early this year at the Inco Club, was a highly successful venture, most of the class passing intend to be commercial pilots while others

Subjects covered in the course include life than with your lips.

to be the Sudbury District twisted and Civil Air Regulations, Navigation, Meteorotaken the course, many of them Incoltes, say it greatly simplifies learning how to fly a

> Lionel Roy, safety engineer at the Copper Refinery who held the rank of flying officer during the war, is thoroughly qualified to conduct the course, having trained as both pilot and navigator after which he served as an instructor.

Discussing the relationship between altimeter and barometer, at the first Ground Instruction School at the Inco Club last spring, are Lionel Roy, instructor, Vern Kroetsch of Copper Cliff Metallurgical, Cliff Doman (kneeling) of Frood-Stobie No. 7, Jim Langdon of Copper Cliff Smelter, and Gerry Lamothe of Murray Mine Electrical.

You can preach a better sermon with your

Make Presentation to Art Hughes on Retirement



Orphan at 8, He Made a Real Mark

Art Hughes has come a long way since in 1919 he was married to Margaret Hawkins that dark day in Glasgow when, a boy of eight years, he faced the world alone. His He'll Get His Inco News father had died two years previously. When his mother passed on he was strictly "on his own".

Friends of his family in Canada wrote that they would be glad to have him come and make his home with them, so he sailed away to the New World, not half as calm and confident inside as his good Scottish face may have suggested.

Took Up Railroading

At Aylwin, Quebec, Art took quickly to life wasn't until he was 23 that he decided to strike out for himself. His first job was in a dairy in Ottawa, and after a year at that he hooked up with the C.P.R., firing locomotives out of Ottawa and then Smith's Palls. In 1914 he moved to the C.N.R., and it was after they moved him to Capreol that he heard the call of the Nickel Belt. In the spring of 1920 he took the post of night foreman in the locomotive shop of the British America Nickel Co. at Murray Mine, and that fall switched over to Copper Cliff as a locomotive fitter.

The boys in the locomotive shop and other pals made a presentation to Art at the end of his last shift before retirement. Foreman Charlie Cummings read an illuminated address which said a lot of complimentary things Art modestly denied were true, but he was the only man in the crowd who didn't endorse them 100%. He has been a faithful, efficient, and popular workman. He was presented with a purse of money as a token of the high esteem in which he is held.

Some of the locomotive shop gang are seen in the above photograph in which Charlie Cummings is making the presentation to Art. In the front row are Harold Basso, Johnny Hall, Harvey Nadeau, T. Tomassini, Joe Spigelski, Chick McDonald, Richle Howard, Ed. McKerral, Ed. O'Brien; in the back row Joe Martel, Jack Cullen, Fred Lumley, Flash New York Office. (And by the way, what-Leishman, Art Lenihan, Marcel Paganucuci, ever has happened to Ted Dauchy down

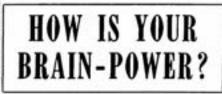
Luigi Simionati, Bill Leclair, John Martin, him for months.) Tom Harkins.

Art was married in 1906 at Ottawa to Agnes Badger, who died in 1918. At Capreol

He'll Get His Inco News

Although he is now out of active service, he retains a very close tie with the Company which he served some 29 years because his three sons and two sons-in-law are all Inco men. Sons Bruce and Gordon are employed the boller shop at Copper Cliff, and Wilmer is with the Mechanical Engineering Dept.; Ernie Ball, husband of daughter Edith, works in the Copper Cliff Concentrator, and Les Wingrave, married to Evelyn, At Aylwin, Quebec, Art took quickly to life is a skimmer in the converter building. Now on the farm of his foster-parents, and it there's an Inco family, if ever you saw one? And there are seven grandchildren coming along to carry the record into the third generation.

> Art is fit as a fiddle and firmly convinced that life begins at 65. Between his garden and various odd jobs here and there, he expects to keep busy for another 25 years at least. More power to him!



Figuring out how many ways you can get change for a 50-cent piece, the riddle sent in last month by Jack Rogerson of Coniston, was more pencil work than a lot of puzzle Jack: "Til say she did. She fans felt like doing, judging by the number feet in an instant." of replies.

First in with the correct answer was Mrs. Elsa MacDonald of the Smelter Efficiency Dept., and John Avery of Copper Cliff Warehouse was next.

Most distant fan to send in the solution of 49 different ways was H. S. Lewis of the back, try giving yourself a good shove.

George Counsell, Alex Salo, Artie Goddard, there? This puzzle corner hasn't heard from

Sparky said that as far as he is concerned there is just one way to change a 50-cent piece-from his pocket to his wife's purse. Amen!

There has been the odd complaint that our puzzles of late have been too easy. We will be glad to hear from all the brain-trusters who can solve the following little toughie within 10 minutes.

In each of three roads, A. B and C, the houses on one side had consecutive odd numbers (beginning at 1) and on the other side, consecutive even numbers (beginning at 2). In each road the sum of the odd numbers is greater by 43 than the sum of the even numbers; A contains most houses, and there are 6 more even numbered houses in B than there are in C.

How many houses are there in each road?

Another 100,000 For Frood-Stobie

For the sixth time, the men at Frood-Stoble Mine have achieved the distinction of completing 100,000 consecutive shifts without a compensable lost-time accident. Not so long ago the 100,000-safe-shift goal was regarded as a formidable objective, but by safety co-operation and teamwork Frood-Stoble are making it look com-paratively easy. Their sixth 100,000 run was completed in August.

LOST NO TIME

Jim: "When you asked the wallflower to

Jack: "I'll say she did. She was on my

PUN IN THE NURSERY

"I'm fed up on that," said the baby. pointing to his high chair.

Instead of giving yourself a pat on the The Glicrafter

PRINTED IN CANADA