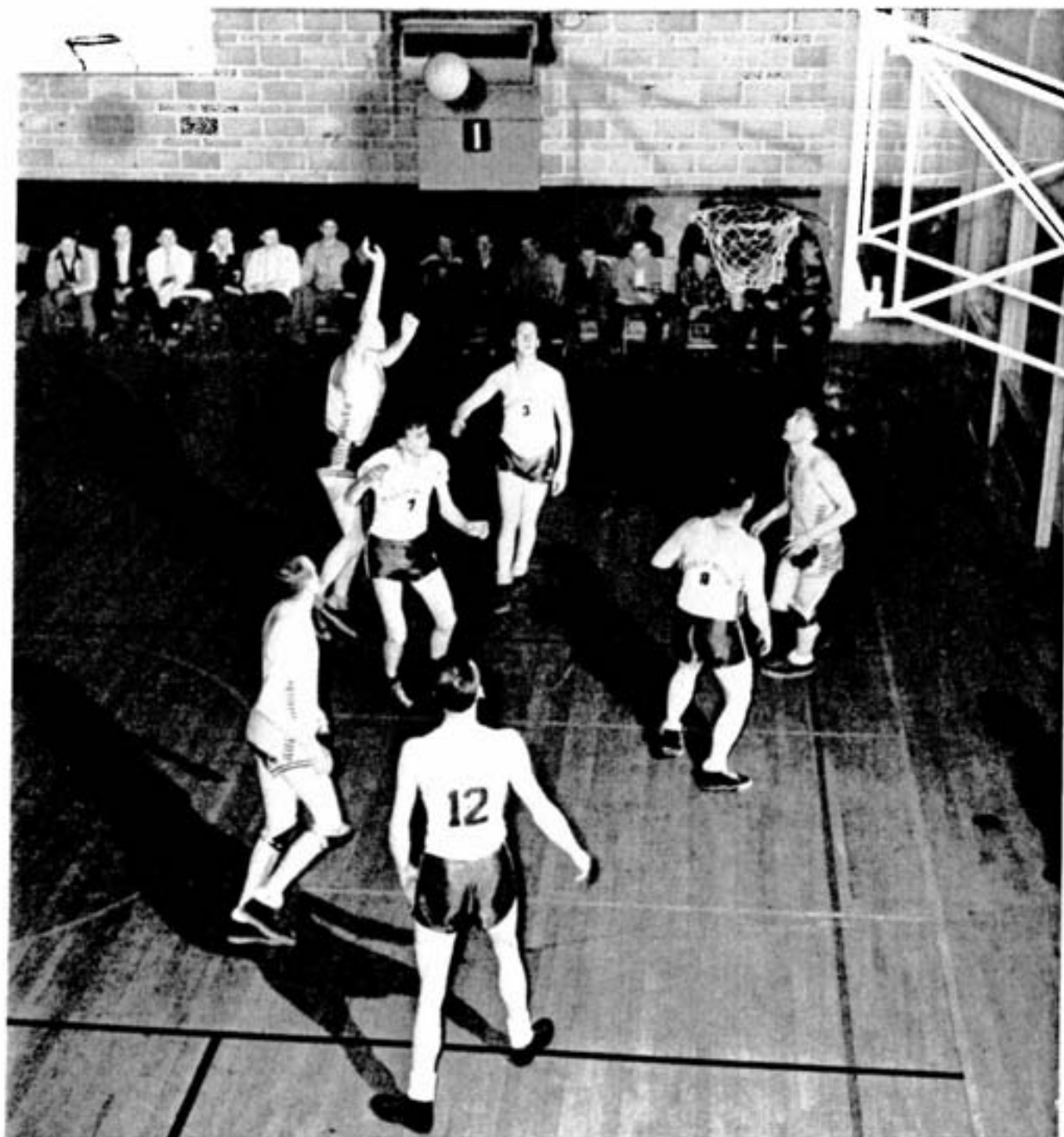


INCO TRIANGLE

VOLUME 9

COPPER CLIFF, ONTARIO, MAY, 1949

NUMBER 2



Port Colborne Incos Winning Ontario Championship STORY ON PAGE 61



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A Spearhead of Human Progress

Reports from the far-flung frontier on which the products of Inco continue to serve as a spearhead of human progress were highlighted by Robert C. Stanley, chairman of the board, in his annual address to the shareholders of the Company at Toronto, Ont., on April 27. In an almost unbelievable variety of ways, ranging from improving the activity of penicillin to resisting the high temperatures in jet aircraft engines, Inco products are serving mankind, he showed. As an example of the development of new nickel alloys to keep pace with the needs of science and industry, he mentioned the field of electronics, for which special alloys of nickel, including non-magnetic materials, have been created to cope with the progress in television, radar, and electronic computers.

Nickel Oxide Sinter

Speaking of improvements in smelting methods at Copper Cliff, Mr. Stanley said: "Our Orford process served well for many years in the production of the major portion of the world's nickel requirements. However, we have developed a better process. A plant has been built for the separation of copper, nickel and platinum metals in matte by subjecting the matte to controlled cooling, flotation and magnetic separation. The matte flotation operations in the new nickel oxide sinter plant commenced in September and are rapidly approaching full-scale production, practically replacing the Orford process. This has been a process change of major significance. The transfer of sintering operations from Port Colborne to Copper Cliff will soon be completed."

Flash Smelting

The chairman stated that further progress has been recorded in the flash smelting of nickel and copper flotation concentrates with oxygen. "As announced last May," he said, "results obtained in our pilot unit have justified the planned construction of an initial flash smelting furnace on a commercial scale. The new process will permit a considerable saving in coal requirements, and at the same time will serve both to increase the production of sulphuric acid and to enable the production of liquid sulphur dioxide from furnace exhaust gases by Canadian Industries Limited. This represents another step forward in the maximum utilization of our ores, an objective to which we are devoting continuing and fruitful research."

Capital Expenditures

"In the last 20 years the Company's capital expenditures have totalled \$154,000,000," Mr. Stanley said. "Capital expenditures in 1948 were \$14,080,479, comparable with \$9,668,796 in 1947. The largest item was \$5,066,463 for the Company's new process plant at Copper Cliff. It is estimated that capital expenditures in 1949 will approximate \$18,000,000."

"About \$750,000 was expended last year on our housing programme for employees in our



Safety Leaders

The splendid safety record of Inco plants is due to tireless team-work between the ranks of the employees and their supervision, and also to the inspiring leadership and liaison work of the Safety Engineers. Inco's unceasing war against accidents is carried on through job instruction and safety education at present by the corps pictured above: front row, left to right, Charlie Quinn, Creighton; Tom Crowther, Copper Cliff; R. H. Cleland, general safety engineer, Copper Cliff; Gordon Tulloch, Levack; Clarke Phillips, Open Pit; Hughie Finn, assistant, Creighton; back row, Angus Harrison, Copper Cliff and Coniston plants; Lionel Roy, Copper Refinery; Carl Clubb, Murray; Mel Young, Frood-Stobie; Tom Kierans, assistant general safety engineer, Copper Cliff; Bert King, Garson. Missing is Doug Marshall, assistant, Frood-Stobie.

mining communities. Directors during their visit to our Copper Cliff plant last autumn authorized an additional \$2,000,000, making a total of \$4,500,000 for housing in recent years. Since 1943 more than 230 housing units have been provided for or have been completed. The new appropriation will take care of about 150 additional units, principally in Copper Cliff, Levack, Creighton and Garson."

Accident Prevention

"In Dominion-wide competition for the

John T. Ryan Trophy for "Mine Safety" our mines in 1948 won third to seventh places in the following order: Creighton, Levack, Murray, Frood-Stobie, Garson, thus maintaining the excellent safety work that has been a feature of our mining operations.

"In our British plants there has been a progressive decrease in the number of serious accidents. At all of our plants, our Company has been carrying on a safety campaign in which every employee plays a part."

An Outstanding Skating Quartet



In our book the smoothest, smartest number at the annual Copper Cliff Skating Carnival was the club four performed by, left to right, Alfred Digby, Ann Aubin, Elphie Grottel, and Joyce Kalo. Although they had only two weeks in which to develop their routine, these clever young artists came up with a display of world championship calibre.



Ted Myhill, who retired last month on pension, discusses a blueprint with Ed Kauppinen (right) in the Levack machine shop.

Ted Myhill's Inco Career Covered Copper Cliff, Creighton, Frood, Levack

One of the "unsung heroes" who keep watch over the mighty machines used in mining, ready to meet any emergency breakdown with skill and resourcefulness so that production delays are cut to the minimum, Ted Myhill retired on pension last month after more than 30 years of credited service with Inco.

Starting with the Company in 1916 as a mechanic in the machine shop at Copper Cliff, Ted transferred to the Mines Mechanical Dept. in 1919 and went to Creighton as shop foreman; in 1923 he became rock-house foreman. He moved to Frood in 1939 as master mechanic, and held the same spot at Levack from November of 1942.

London, England, was Edward Myhill's birthplace, on Sept. 22, 1883, his father a harness maker. After serving his time as a machinist apprentice with Ross Courtney & Co., he took a job with the Victor Gramophone Co., which was just introducing His Master's Voice, complete with horn and little dog, to the Old Country. The company had not even acquired a building when Ted signed on, and it hired hotel rooms in which its men assembled gramophones for the swiftly growing British market.

Was An Art Metal Worker

Then Ted spent eight years doing art metal work, hand-carving metal ornaments such as clock mountings and door fittings, for the homes of the aristocracy. He made many items for Queen Mary, and fashioned door fittings out of silver for Marlborough House. He also made decorative pieces for Sunderland House, the last of the big mansions to be erected in London's West End, built at the beginning of the century by W. K. Vanderbilt as a gift to his daughter when she married the late Duke of Marlborough. Constructed at a cost of \$350,000, it was gutted by fire during the Blitz but has been remodelled and now houses the offices of the Mond Nickel Co., Inco subsidiary in the British Isles.

Coming to Canada in 1906, Ted headed straight into the wilderness on the North Shore of Lake Superior, as a mechanic at the Helen Mine. There he met men whom he was later to know in Inco, Ken Clarke, Ab Elliott, Jack Pitman, and the late Joe Workman and Dan Close. A young fellow working in the warehouse was Fred Donegan, now C.P.R. divisional supt. at North Bay. There were about 250 men in the camp.

Unless you went in by boat before freeze-up, transportation to the Helen Mine was a pretty rugged deal, Ted recalls. You paid Jack Legard, the mailman, \$25.00 for the privilege of strapping your suitcase on his dog sled, and then you ran behind his huskies 52 miles through the bush to the camp. It was usually a non-stop flight but about every 10 miles Jack would let you ride the runners for a spell while you got your wind.

When the Algoma Eastern built its line from Sudbury to Little Current, 1913 to 1916,

Ted was master mechanic on the job. Then he joined Inco.

He was married at Massey in 1926 to Margaret Jane Kring. They will spend this summer at their camp near Massey, where Mrs. Myhill's father was one of the original settlers, and will then decide where to make their permanent home, Sault Ste. Marie, North Bay, or Sudbury; they have old friends in all three cities.

Gardening Is Their Hobby

Both Mr. and Mrs. Myhill are fond of growing flowers, and their garden has always been an outstanding beauty spot wherever they lived. Ted says the best part of gardening is sitting on the wheelbarrow and telling your wife what to do. He thinks no man should go through life without planting some trees.

More than 300 of Ted's friends gathered at a stag party in the Sampo Hall, Sudbury, the evening of April 29 to wish him a long and happy retirement. R. D. Parker, asst. vice-president and general supt., H. J. Mutz, general supt. of mines, J. C. Ferguson, master mechanic of mines, and others paid tribute to his fine career of service with Inco. He was presented by Mr. Ferguson with an engraved gold watch, and with a silver dresser set for Mrs. Myhill.



Disability Pension For Jack Cresswell

One of five brothers employed at Coniston Smelter, Jack Cresswell of the Shops got a danger signal from the old pumper a while back and has retired on disability pension so he can take things easier.

Although only 40 years old he has credited service with the Company of 23 years and 5 mos. He was born at Victoria Mines where his father, Jim Cresswell, who died in 1923, was employed by Mond Nickel Co.

He was married in 1932 to Cornelia Kirwan, daughter of Con Kirwan, former Coniston worker who is retired and resides in Sudbury. Their seven children are Ronald, 15, Audrey, Garry, David, Brian, Loren, and Phyllis, 6.

The high regard in which Jack is held by the men in the Coniston Plant was expressed to him in the form of a well-filled purse.

Jack is able to keep in his hand at making things by pattering around in Germain Tessier's wood-working shop, where the Triangle camera found him 'above'. As soon as the warmer weather rolls around he is going to put into action a couple of ideas he thinks will help keep him busy without endangering his health. Good luck, Jack!



Happy Husky

Don Fraser of the Metal-

lurgical Dept. at Copper Cliff made this fine snapshot study of his son Douglas Alexander, who is six months old and weighs 20 lbs. stripped for his regular evening workout with his old man. The happy young husky's mother was formerly Dorothy Campbell of the Accounting Dept. staff.

12½ Years Without a Lost-Time Accident!



An outstanding safety record was celebrated by members of Frood-Stobie Electrical Dept. at a banquet at the Frontenac Hotel, Sudbury, on March 26. In compiling 101,000 shifts without a lost-time accident, the department with its comparatively small force had to steer clear of accidents for 12½ years. Most of the gang were able to attend the banquet, at which the above picture was taken. Seated at the left are Ted Dash, who acted as master of ceremonies; Stuart McKenzie, chief electrician, Frood-Stobie; W. E. Gillespie, Inco electrical supt., who was present to extend congratulations.

Copper Refinery Takes Inter-Plant Bowling Championship for First Time



For the first time in the history of the competition, a Copper Refinery quintet emerged victorious in the annual inter-plant bowling tournament at Inco Employees' Club in Sudbury. The winners are pictured above: left to right, Cliff Atkinson, N. Caverson, C. Trigg, N. Bertuzzi, and Jim Tosto.

Refinery rolled an aggregate of 5653 to top the laurels. A close second was Garson with 5526. Last year the event was won by Creighton.

Fred Fiorotto of Garson was the individual star of the meet with a total of 1353 for the five games. L. Tomasini of Creighton had 1233.

Teams and Scores

COPPER REFINERY: J. Tosto, 228-174-249-287-209—1147; N. Bertuzzi, 261-297-270-232-230—1200; C. Trigg, 294-203-203-275-193—

1168; N. Caverson, 200-156-174-241-250—1021; C. Atkinson, 231-191-294-219-182—1117; team total, 5653.

GARSON: O. Cull, 180-172-295-172-254—1073; B. Hamelin, 185-189-180-220-247—1021; A. Westfall, 186-162-179-225-145—897; M. Fluvian, 217-272-162-249-293—1183; F. Fiorotto, 314-268-298-226-247—1353; team total, 5526.

CREIGHTON: R. Seawright, 245-172-202-240-260—1119; M. Hreljac, 247-378-183-214-168—1190; H. Narasnek, 148-193-148-205-169—863; R. Marsh, 240-203-216-218-290—1077; L. Tomasini, 274-238-126-394-291—1233; team total, 5482.

FROOD-STOBIE: S. Jones, 366-167-234-161-202—1030; B. Elliott, 197-187-234-240-215—1073; J. Watkins, 232-249-199-233-251—1164; E. Simon, 277-165-262-210-272—1186; J. Kilby,

163-166-265-192-226—1012; team total, 5465.

OPEN PIT: O. Cyr, 185-169-148-207-217—926; J. Romanow, 217-171-185-212-198—983; G. Orasi, 237-231-184-183-261—1096; G. Quinn, 183-205-335-165-237—1125; M. Allan, 129-165-284-229-232—1039; team total, 5169.

COPPER CLIFF: B. Basso, 259-217-163-240-238—1117; A. Desotti, 160-307-169-267-217—1120; G. Zinkie, 217-174-151-170-215—927; E. Desotti, 154-165-245-191-259—1014; C. Bronson, 198-243-178-235-233—1087; team total, 5165.

MURRAY: H. Carriere, 162-185-199-122-183—851; A. Manty, 206-194-191-124-243—958; M. Predon, 192-221-171-183-160—927; L. Dube, 153-341-182-269-226—1173; T. McChesney, 198-191-137-286-201—1013; team total, 4922.

Heavy Scoring by Copper Cliff

The Inco Club's annual inter-club tourney, open to teams playing their regular schedules in the Sudbury recreation hub, was won by Copper Cliff with the whopping aggregate of 6095. Bronson's team really got hot for this center, and had a comfortable margin over Open Pit, Frood-Stobie A and B, Copper Refinery, and Ladies. Individual laurels, for which members of the winning team were not eligible, went to Cliff Atkinson of Copper Refinery with 1261.

Scores of the victorious Cliff lineup were: B. Basso, 271-213-185-195-205—1069; G. Zinkie, 219-244-179-283-211—1136; A. Desotti, 302-296-334-158-234—1324; S. Bertuzzi, 321-267-241-239-229—1297; C. Bronson, 220-293-302-176-278—1269; team total, 6095.

On behalf of the Inco Club championship trophies and copper steins were presented to the members of the winning teams and the scoring stars by Vern Tupling.

YOU CAN'T WIN, OLD BOY

This is a woman's world. When a man is born people say, "How is the mother?" When he marries, they say, "What a lovely bride!" And when he dies they say, "How much did he leave her?"

Toppazzini and Lemieux Tell Coniston Legion's League about the "Big Time"



"Clean living" is a primary essential to good hockey; smoking, drinking, and late hours have no place in the life of the player who wants to keep in condition, two big-league hockey stars told the boys of the Coniston league at their annual banquet.

Zello Toppazzini of Copper Cliff, right winger with Boston Bruins, and Coniston's own Armand Lemieux of the Pittsburgh Pirates, were guests of honor at the dinner given by Coniston Branch of the Canadian Legion to the highly successful hockey league it sponsors. The two popular players talked frankly to the boys about what it takes to make good in the "Big Time".

Jack Angove, president of the Coniston

Branch, was in the chair. The Bill McLaughlin Trophy was presented by Stan Jeffrey, Legion sports officer, to the league champs, Toronto Maple Leafs, which were coached by Joe Bloemen.

In the first of the above pictures is a group shot of the boys attending: back row, D. Martin, R. Parker, L. Durette, M. Trepanier, N. Zanatta, D. Chabot, J. Brignolio, D. Blake, R. Revais, M. Curlook; centre, J. Laprairie, R. Leclair, Y. Trepanier, J. Langlois, H. Gagnon, E. Floriani, G. Ruddy, C. DeMarchi, Y. Gosselin, E. Deneka, R. Spencer, R. Blake, G. Halverson; front (The Maple Leaf team), G. Caverson, N. Gaudette, J. Fitzgerald, C. Paradis, G. Creswell, Stan Jeffrey, C. Price,

B. Spencer, J. Robideaux, N. Price, J. Barbe.

Individual Prize-Winners

In the second picture some of the league stars are seen with the distinguished guests: on the left is Calvin Price, captain of the Maple Leafs, with the McLaughlin trophy; next is Joe Barbe, showing to Armand Lemieux the goalie's outfit he won as the league's best net-minder; next is Zello Toppazzini, admiring the classy hockey skates and boots Gino Caverson received as the league's cleanest player and highest scorer.

Ladies of the Legion Auxiliary served the delicious dinner and seemed worried if any of the boys failed to take at least two if not three helpings plus a couple of big wedges of pie. They didn't have much to worry about. Left to right: Mrs. George Halverson, Mrs. Bill McLaughlin, Mrs. Gene Olivier, Mrs. Stan Jeffrey, Mrs. Jack Angove, Mrs. Jim Forrester, and Mrs. Joe Laprairie.

Inco Gives Second \$50,000 to Memorial

Completion of the Canadian Legion Memorial Hall, located at the corner of College St. and Frood Rd., Sudbury, was further assured with a second substantial donation from the International Nickel Company.

R. L. Beattie, Inco vice-president and general manager, presented a \$50,000 cheque at Copper Cliff to E. D. Wilkins, K.C., president of the Legion Memorial Hall Executive, a Sudbury group whose responsibility is completion of the new Legion building.

This was the second donation of \$50,000 made by the Company. Inco's vice-president and general manager said the second donation underlines the Company's eagerness to co-operate to the fullest in the erection of a suitable memorial to the gallant service and sacrifice of Sudbury and district men in the cause of freedom.

Inco's first donation of \$50,000 was turned over to the Legion's memorial hall fund in May, 1946, when the cost of the building was estimated at \$200,000. Increases in construction costs subsequently boosted the financial requirements to \$350,000.

The Company duplicated its original gift to aid the project over this difficult hurdle. Members of the Legion committee say they are now in a position to complete the edifice for dedication to the memory of all who served and to the happiness of those for whom many laid down their lives.

To Stand and Stare

(Ron Everson in The Printed Word)

A poor way to earn much of a living, but an otherwise satisfactory way to live, is to put in a good deal of time looking at such things as water, including still water, and water with waves, and also in looking at trees, grass, blue sky, pink sky, clouds, and the moon in its various celebrated phases.

Anyone who can see that far and who has let more than four or five weeks go by without noticing the moon is an emotional pauper. A sudden sight of the moon while putting out the garbage may jerk a man into some nostalgic feeling. But if the moon comes on him by stealth like that, instead of by his looking for it, he is in a fair way to close up and blow away like a desiccated oyster.

It has not been proved, but there is a school that believes the smog over cities is largely the dried-up souls of city people who were too busy working late or stumbling out of night clubs to look at the moon.



Incos Capture Ontario Title At Basketball

The first basketball championship in Port Colborne's history, the Ontario Intermediate C crown, was won by the Inco team in a thrilling final match on the Inco Recreation Club floor the night of April 13.

Ten points down to Port Hope after the first match of their total-points home-and-home series, Incos checked the Port Hope hoopsters to a standstill while they uncovered scintillating combination and accurate shooting to win the final game 46-26.

The front cover of this issue of the Triangle carries an action picture taken during the match. The one-handed shot which Captain B. Smyth got away just as the camera clicked went for a basket. On this page is another photo made during the heat of the battle, and also a picture of the Inco lineup receiving a last-minute pep talk from Coach Jack Holmes and Manager Dom Missett.

It was indeed a proud night for Port Colborne, and the boys are deserving of the highest praise for sticking to their championship ambitions through thick and thin.

Lineups and scoring in the final game against Port Hope:

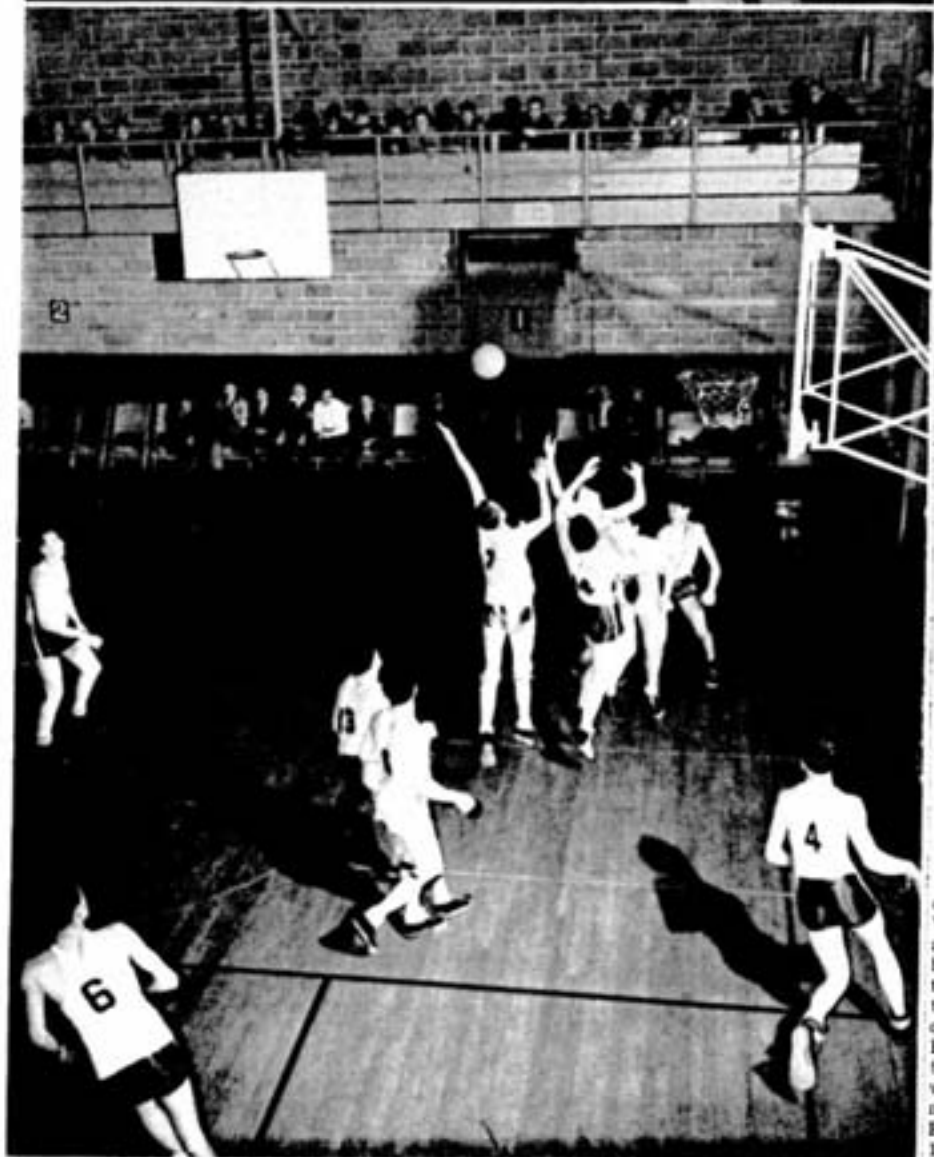
Port Colborne Incos (46)—Favero (12); Columovich (1); Rajczak (18); Nevar (3); Horvath (4); Karpincick (5); Buffa (1); Smyth; Richardson; Riou (2).

Port Hope Durham Motors (26)—Berry (2); Hagerman; Reeves (2); Fullford (2); Lees (2); Bullock (2); Van Buren (1); Gillin; Thompson (2); Hunt (4); Bongard (5); Brandwood (4).

Metro and Friend



You might not think it when you see him on the job at the Open Pit, but Metro Walensky is a musician of unusual ability and his favorite recreation is a session with his faithful fiddle. He is an authority on the music of his native Ukraine, and has transcribed much of it for orchestra and choir. For several years after the Ukrainian Hall was opened on Frood Road, Metro was the music master until a full-time instructor was engaged. He came to Canada in 1926 and joined Inco in 1930, transferring to the Pit in 1944. He has three children, Bobbie, 10, Walter, 8, and Olga, 6.





Over 200 Boys Let Off Steam In Midget Loop

Copper Cliff's midget edition of the National Hockey League, complete even to having a Stanley Cup as its premier award, wound up another highly successful season under the direction of hard-working, long-suffering, enthusiastic Val McGauley. More than 200 embryo big-leaguers fought it out for the four trophies at stake.

McGauley, whose head-aches if laid end to end would spell Bayer in eight different languages, was assisted in handling the 14-team league by Manley Bennett and Harry Franssi. In addition to keeping their three-ring circus in full swing, they managed to maintain full records of team standings, goals scored, and attendance, so that each boy's progress can be checked from season to season.

The league was as usual divided into three sections: minor bantam, 9 to 11 years; bantam, 12 and 13; midget, 14 and 15. One team from each group was also entered in the Nickel Belt Minor Hockey Association setup.

Country-Wide Reputation

As a contribution to the development of sound young bodies, as a regular weekly outlet for steam which might otherwise be blown off in much less desirable ways, and as a stepping stone to hockey's "Big Time" for lads with more than average ability at the game, the Cliff's midget N.H.L. is recognized throughout the country as a model institution and a lasting credit to its sponsors, Copper Cliff Athletic Association.

In the first of the accompanying photographs are the Chicago Black Hawks, who won the Canadian Legion Trophy. They finished first in the minor bantam league and then went on to cop the playoffs. In the back row: Wayne Johnson, Billie Sheridan, Ray Toppazzini, Val McGauley, Richard Ogilvie, Ken Hildebrand, Robert McGauley, and Earl Nelson; front row, Art Hillen, Don Pinlayson, Billie King, Jack Guikkala, Cecil Chellew, Pat Lineham.

2. Although they could do no better than third place in the regular schedule of the bantam loop, New York Rangers showed that they had what it takes when the chips are down. They couldn't be stopped in the playoffs and won the Valentini Trophy hands down. Back row, Jack Livingstone, Moe Johnson, Dick Valentini, Harry Phillips, Pat Hickey, Bob Deacon and Cecil Bennett; front row, Mario Desalle, Art Wilkie, Larry Rossi, Bruno Pollesel, Eddie Pollesel, Bill Chellew.

3. This was the team which won league honors and the Racicot-Darrach Trophy in the midget section but lost out in the playoffs. Toronto Maple Leafs: back row, Joe Sleaver, Jack Porter, Jack Camelletti, Bill Darrach, Lloyd Sleaver, Don Uggioni, Delmo Tomassini; front row, Jack Hobden, Howard Kauppinen, Harley Martin, Jim McGauley, Barry Williams.

Scored Major Upset

4. Following the example set by their namesakes in the bantam division, this New York Rangers lineup scored an upset by winning the midget playoffs after limping home third in the regular standing. They were awarded the Stanley Cup, presented by Robert C. Stanley, chairman of the board of Inco. The team: back row, Bob Cooney, Percy Leshar, Gordon McLean of Copper Cliff Athletic Association, Jack Taus, Doug Prince, Gerard Gatten; front, George Hastie, Jackie Rogers, Jim Johnson, Doug Crouse.

*"The Pros"**How and Puppets**Irish Belongs**Happy Schoolgirls**Christie**In the Schoolroom**Queen**Christmas Soldiers*

Young Skaters Score Great Hit In Brilliant Annual Carnival

A festival of skill and grace handsomely set off by colorful costumes, smartly cued musical backgrounds, and intriguing drill patterns, the Copper Cliff Skating Club carnival was a great show any way you wanted to look at it.

Except for a lamentable hull during one of the professional comedy acts, the briskly paced performance was brilliantly attractive from start to finish, and easily one of the best of the 13 triumphs now to the credit of the club.

Theme Well Developed

"Holidays on Ice" was the theme of the carnival, and gay and carefree was the spirit in which it was skated to music supplied by the Royal Canadian Air Force Band. The club professionals, Miss Taisie McCarthy and Miss Jacqueline Byers, had worked tirelessly to school the young performers in a variety of cleverly conceived routines, all of which were executed with a real flair for showmanship. The costumes, designed and produced by a talented committee headed by Mrs. R. Brown, brightly reflected the holiday mood of the show, as did the scenic decorations which were, as usual, the work of the old master, W. Bradley.

Wallace Diestelmeyer, the celebrated Canadian and North American champion, left nothing to be desired in his beautiful exhibitions of skating, and President "Duke" Jarrett of the Skating Club was to be congratulated on capturing a feature artist of his calibre for the show. A perfect alter ego

for Diestelmeyer was the noted professional comedian, Harold Snell, whose amazing acrobatics provoked frank admiration as well as gales of laughter.

The club's own featured performers have never been seen to better advantage. Ann Aubin, fresh from her gold medal achievement on the Pacific Coast, and Joyce Sabs, the silver medallist who made such a fine showing in the Canadian junior championships, skated with dazzling skill and superb confidence, winning bursts of applause from the big audiences. Gladys Lennie, Elphie Grotto, and Alfred Digby were all top-notch entertainment in both singles and pairs, particularly Miss Lennie and Grotto, the Northern Ontario pair champions. Mary Lou Simcox and Bernadette Farrell, in one pair number, and Margaret and Sandra Duncan, in another, were smoother than a kitten's wrist and mighty nice to look at. Junior soloists who showed outstanding promise included Patsy Poupore, Sandra Duncan, Dorothy Yackman, Dorothy Jarrett, Dennie McCullough, and Jaye Jarrett, as did the clever young Wilkins sisters, Nancy and Catherine, in their pair.

To hard-working "Duke" Jarrett, who produced the nifty souvenir program as well as handling the multitudinous duties of president, head peacemaker, and general convener, and to the people who did such a great job behind the scenes, a king-size bouquet of orchids on a swell achievement!

(Continued on Page 10)





Waiting for the Cage

Wonder if those so-and-so's blocked the sets?" muses Paul Yuska right front, as he waits in the warm-room at Frood-Stobie No. 3 shaft for the cage to take him underground on afternoon shift. A tall tale of other likely topics of conversation or soliloquy while the boys listen for their cage call. The above group is bound for 2400 level. Others in the front row are Ralph Mathe, Jimmy Martin, and John Kusnierhyk; standing are John Tolin, Frank (General) Zalc, Ralph Treblech, George Cuthbert, and Jim Garsva.

Skaters Score

(Continued from Page 9)

Most of the skaters taking part in the carnival appear in the accompanying photographs:

1. "THE PROS."

Miss Jacqueline Byers, silver medalist, assistant club professional, and Miss Tasie McCarthy, international gold medalist, club professional.

2. ELVES AND PAGEBOYS

Back row, Joan Quinn, Barbara Lemie, Haroldine Wright, Peggy Palmer, Gail Sadgation, Gayle Ferguson; front row, Brenton Hazelwood, Billy Simpson, Neil MacDonald.

3. IRISH COLLEENS

Bernadette Farrell, Molly Lauzon, Gail Beckett, Charlotte Ann Duncan, Catherine Wilkins, Dorothy Jarrett, Maureen Farrell, Mary Lou Simcox.

4. HAPPY SCHOOLGIRLS

Back row, Cleo Canapini, Virginia Scanlon, Chloe Canapini, Pat Rennick, Colleen McGuire, Sharon Gilbert, Gail Halonen, Catherine Cressey, Eleanor Gates, Aileen Pex, Susie Corbell, Nancy Kuzamaski, Beverley Roworth, Louise Buck, Heather Cosgrave;

front row, Gail Hillen, Betty Carruthers, Gail Hashey, Alice Digby.

5. CHRISTMAS DOLLS

Back, Catherine and Nancy Wilkins; front, Donna Frame, Cheryl Cranley, Judy Robertson, Sheila Quinn, Carolyn Godfrey, Carolynne Benevitti, Edith Thornton, Lynn Myatt, Linda Kostash, Carol Dixon, Marsha Fabbro.

6. IN THE SCHOOLROOM

Back row, Irma Salin, Mary Nelan, Susan Stickles, Marilyn Kovachuk, Sandra McNeil, Barbara McCandless, Barbara Martin, Patsy Nelan, Jeanette Godin, Joan Godin, Gloria Pulkinen, Laura Jean Caswell, Shirley Ann McCandless, Janie Sutton, Myrna Ceppetalli, Nadia Reece; front, Denise McCullough, Gus Fleishman.

7. DOWN ON THE FARM

Back row, Monica Petrocky, Diane Nickle, Vivi Ann Hagglund, Augustine Pavan, Dorothy Jarrett, Mary Margaret Caswell, Barbara Marshall, Clarise Meaden, Nora Nelan; front row, Heather Jackson, Helen Lineham, Joyce Taus, Mary Lou Hillen, Marlene Fiorotto, Marilyn Sutton, Marguerite Langlade, Betty McLaughlin.

8. SALUTE TO THE AIR FORCE

Mary Lou Simcox, Gladys Lemie, Molly Lauzon, Betty Lineham, Marnie Miller, Ann Armstrong, Catherine Wilkins, Stephanie

Gilbert, Arlene Wilson, Dorothy Yackman, Sandra Duncan, Nancy Wilkins, Ruth Hall, Denise McCullough, Gail Beckett, Patsy Poupore, Charlotte Ann Duncan, Dorothy Jarrett, Maureen Farrell, Carol Fleishman, Janet Northwood, Julia Harrison, Margaret Duncan, Bernadette Farrell.

9. CHRISTMAS SOLDIERS

Janet Stewart, Penny Smith, Gail Latreille, Sandra Plaunt, Judy O'Hara, Colleen Cushing, Marli Cushing, Susan MacDonald, Dale Silver, Judy Wheatley, Shirley Simpson, Helen Ann Simpson.

10. THE VALENTINE PARTY

Mary Emma Merrifield, Ann Armstrong, Stephanie Gilbert, Marnie Miller, Carol McGhee, Marilyn Dempsey, Diane Nickel, Patsy Rogers, Gail Wilson, Susan Dunbar, Ruth Hall.

11. THE JUNIOR BALLET

Back row, Judy Greenwood, Gail Butchart, Betty Peura, Elizabeth Mullin, Sandra Duncan, Barbara Jackson, Joyce Fellows, Anne Elaine Stevens, Heather Jackson; third row, Carol Orr, Verlyn Brown, Patsy Ann Quinn, Lynn Gladstone; second row, Joy Barnard, Barbara Romagra, Bernadette Laberge, Harriett Maddock, Kastrina Tulisalo, Diane Strugnell, Patsy Mumford; first row, Jaye Jarrett, Diane Prattini, Carlotta Orassi, Sharon Fox.

Forms and Uses of PRIMARY NICKEL

COMMERCIAL FORMS OF PRIMARY NICKEL

Electrolytic Nickel Cathode Squares

Form Standard Sizes: 9" x 9", 4" x 4",
2" x 2", 1" x 1"

Use Ferrous or non-ferrous melting

Melting Point 2640 F.

Typical Nickel Content 99.95% (including cobalt)

"QM" ("Quick Melting") Electro Squares

Form 1" x 1" x approximately 1/8" squares

Use Especially developed for non-ferrous foundry alloying

Melting Point 2640 F. but high surface area for weight promotes faster assimilation

Typical Nickel Content 99.95% (including cobalt)

"XX" Nickel Shot

Form Shot of various sizes screened through 1" mesh on .053 mesh

Use In melting operations where high surface area promotes rapid melting

Melting Point 2640 F.

Typical Nickel Content 99.60% (including cobalt)

"F" Nickel Shot and Ingots

Form Shot screened through 1/4" mesh and ingots weighing approximately 5 lbs.

Use Grey iron foundry melting

Melting Point 2300 F.

Typical Nickel Content 92.00% (including cobalt)

Nickel Ingots

Form 10 or 25 lb. ingots

Use Ferrous alloying

Melting Point 2640 F.

Typical Nickel Content 99.50% (including cobalt)

"NH" Pigs, Nickel-Chromium-Iron

Form Approximately 5 lb. pig

Use Production of "Ni-Hard"

Melting Point 2350 F.

Nickel Content Approximately 46% (including cobalt)

"NCC" Pigs, Nickel-Copper-Chromium-Iron

Form Approximately 5 lb. pig

Use Production of Type 1 "Ni-Resist"

Melting Point 2300 F.

Nickel Content Approximately 58% (including cobalt)

"Nisloy" (Formerly "F" Nickel Type "B")

Form Granulated

Use Inoculant for addition to grey cast iron to provide improved machinability and controlled grain structure. NOTE: Should never be offered as a substitute for "F" Nickel, electro, or any other form of nickel employed as a direct alloying agent to meet a required nickel specification.

Melting Point 1800 F.

Nickel Content Approximately 60% (including cobalt) plus 30% silicon, balance essentially iron.

What Are Nickel Cast Irons?

Nickel cast irons are a group of cast irons which contain nickel alone or nickel in combination with suitable amounts of other alloying elements and which possess improvements in strength, wear resistance, machinability, density, etc. The total amounts of such alloys (with the exception of such specialties as "Ni-Resist," "Ni-Hard," etc., to be described later) contained in this group of cast irons rarely exceeds 3 1/2% and more commonly, is in the range of 1 to 2%.

Common Applications of Nickel Cast Irons:

Brakedrums, bushings, cylinders and cylinder liners, cams, dies, gears and pinions, machine tool beds and tables, machinery castings, manifolds, pistons — piston rings, pump parts, resistance grids, valves and fittings.

(Continued Next Issue)

GOOD COMBINATION!

The list of prizewinners at a picnic included the following: "Mrs. Smith won the ladies' rolling pin throwing contest by hurling a pin 75 feet. Mr. Smith won the 100 yd. dash."

LANGUAGES EXPENSIVE

A rich old aunt was paying her nephew's college expense, and her visitor asked her if it was expensive.

"Well," said the aunt, "languages runs pretty high. My check this month covered \$10 for English, \$20 for Latin, and \$110 for Scotch."

"Pro" Pays Off



There was a daffy sight up on "The Hill" at Copper Cliff one evening last month. "Pro" Prattini, who works in the brick shed at the smelter, was paying the price of blind loyalty to the Detroit Red Wings. While "Shebear" Valentini, who picked Toronto Maple Leafs in their Stanley Cup wager, obligingly swept a path for him, "Pro" got down on his hands and knees and, snuffing like a coon hound, nosed a small ball across the street between Signoretti's ice-cream emporium and his home. All morla games were suspended during the performance, and a capacity crowd howled with sadistic glee at "Pro's" mortification.

Younger Players Show Improvement

Marked improvement in the proficiency of the younger players was noted in the annual tournament of Copper Cliff Badminton Club, the result of organization and coaching during the season by "Scotty" McDermott at the Community Hall.

Jim Kavanagh and Maureen Pappin, two of the rising stars, each figured in two championship victories. Thirty-six players entered the tourney, one of the most successful ever held by the club. Results of the final matches were as follows:

Championships

Men's singles, J. Kavanagh, d. L. Goodrich; ladies' doubles, Mrs. D. DeSoto and Maureen Pappin d. Mrs. M. Byers and Virginia Digby; men's doubles, R. McAndrew and J. Kavanagh d. P. Stephenson and W. Yeo; ladies' singles, Maureen Pappin d. Mrs. M. Byers; mixed doubles, Mrs. D. DeSoto and R. McAndrew d. Virginia Digby and J. Kavanagh.

Consolations

Men's singles, D. Pappin d. G. Burns; ladies' doubles, Lillian Kauppi and Marilyn Gillespie, default; men's doubles, G. Burns and O. Syer d. O. McDermott and D. Pappin; ladies' singles, Lillian Kauppi d. Virginia Digby; mixed doubles, Noreen Smania and D. Bulton d. Phyllis Hobden and D. Pappin.



Tom Birney Honored

A long-time Nickel Belt sports luminary as both player and executive of baseball and curling, Tom Birney was honored on his retirement as secretary of Copper Cliff Curling Club, a position he filled faithfully for many years. At the club's annual meeting he was presented with a Gladstone bag and listened to a fine round of well-earned praise. On Tom's right in the above picture is Clarence Beach, who succeeds him as secretary, and on his left are Earl Stoneman, elected president for 1949-50, and Jack Duncan, retiring president. The club is already making plans for the most outstanding year in its history.

HOW IS YOUR BRAIN-POWER?

It being Spring and all that there stuff, Gerald Malier of Coniston burst into poetry to report the answer to last month's problem: Ethel was last, though a booster she be, While fourth in line I'd place Mary; Third was Betty, whose lie I can't condone, For where she put Kitty, I'd put Joan. I hope, at this stage, you'll excuse my ditty, But let me finish with the first as Kitty.

For the benefit of those who muffed the riddle, here's a blow-by-blow account of how it works out:

If Joan was neither 2nd or 3rd, Ethel would have to be both 1st and 5th. Therefore Joan was 2nd or 3rd. Similarly, Ethel was 1st or 5th. So 4th place must have belonged to Kitty, Mary or Betty. But if Kitty was 4th, both parts of Mary's letter were false. Therefore Mary was 4th.

Thus neither Ethel (see above) nor Mary were 2nd. Kitty couldn't have been 2nd, because she said she was and the other part of her statement (i.e. that Mary was 4th) was true. Betty couldn't have been 2nd without having both parts of her statement false. Therefore Joan was 2nd.

Ethel said that Joan was 2nd (true) and that she, herself, was 1st. The latter statement had to be false so therefore Ethel was 5th.

In Betty's statements, Kitty was 2nd (which we now know to be false) and she, herself, was 3rd. The 2nd statement must be true, therefore Betty was 3rd.

The remaining place, 1st, must belong to the remaining girl—Kitty.

Besides sending along the right answer, Jack Huffman of the Electrical Dept. at Port Colborne wrote, "I look forward to the Triangle each month and find it very interesting." Mrs. A. J. Edwards of Creighton also had a kind word: "We enjoy the Triangle very much and send it on to friends after we read it." The reader who last month sent in the unsigned bouquet turned out to be Mrs. Mary Kozak, who can't accept our offer to go steady but who repeats "I think the paper is really swell." This kind of comment is naturally very hard for us to take, but we try to bear up.

Fred Morrisette files a mild protest because we keep saying he works in the Open Pit Engineering Office, whereas he has for some time been stationed at Froid-Stobie No. 3 Shaft. Don't blame you a bit, Freddie; we'd resent it too. What's past is past, and you should be given a chance to forget that gang across the tracks.

Others we were glad to hear from: Jack McConnell of Copper Cliff Smelter, the Accounting Dept. Stenos, Tom Scanlon of Garson, Reg Edmunds of Froid-Stobie machine shop, Ben Eley of Leveak, Mrs. C. E. Young of Copper Cliff (only half an hour's figuring time this trip), David Royal of Port Colborne, Scully & Kilby, Ltd. of Murray, H. S. Lewis of New York, Tiziano Oliver of Coniston, Mrs. Glena Edwardson of Copper Cliff, Tom Peters of the Agricultural Dept., and Tom Bielek of Garson, although he somehow got the order of the girls' names reversed.

There's a little mathematics involved in this next forehead-furrower, and if the hot weather were here we wouldn't burden you with it:

Turtle said the following to Swift, his opponent. "I know you're a champion sprinter, but we'll arrange a handicap. From your gate to mine is 147 yards. Now we'll start simultaneously, each level with his own



Budding Artists

The lively growth of art appreciation in Sudbury and district was clearly evident at the fifth annual exhibition of the Sudbury Arts and Crafts Club. The large number of entries and the keen interest displayed by the general public was intensely gratifying to the club's sponsors and to the arts and crafts teachers in the schools. Four of the younger winners are pictured above with the exhibits which earned them special awards presented by X. A. Ducharme and Lorne Douglas: top row, Angeline Marczynishyn, 12, of Creighton, and Bobby Butler, 14, of Copper Cliff; bottom row, George Crandall, 11, of Sudbury, and Lloyd Squires, 13, of Coniston.

gate, and run to the other's starting point. We pass at some point P; you score a point for every yard I run before reaching P, and two points for every second I take to run the course; I score a point for every yard you run before reaching P, and one point for every second you take to run the course."

Swift agreed and took 5 3 5 seconds to finish after passing P, whereas Turtle took 12 3 5 seconds after passing P. Speeds being supposed uniform throughout, who won, and by how many points?

Richie and Edna Score Grand Slams

Two players figured in all six championships in the annual Inco open badminton tournament at the Employees' Club in Sudbury. Richie Gallagher and Edna Johnston won the men's and ladies' singles, paired to cop the mixed doubles, and shared triumphs in the men's and ladies' doubles.

Results of the final matches:

Championships

Men's singles, Richie Gallagher d. Harry Narasuek; ladies' singles, Edna Johnston d. Marion Vanderburg; mixed doubles, Richie Gallagher and Edna Johnston d. Jerry Myers

and Dolina DeSoto; men's doubles, Richie Gallagher and Jerry Myers d. Harry Narasuek and Bob McAndrew; ladies' doubles, Edna Johnston and Dolina DeSoto d. Lorna Brooks and Hattie McCrea.

Consolidations

Men's singles, Lou Gandic d. Pete Stephenson; ladies' singles, Lorna Brooks d. Marg Pawson; mixed doubles, Jim Kavanaugh and Marion Vanderburg d. Stan Dutchburn and Hattie McCrea; men's doubles, Stan Dutchburn and Gord Merriam d. Bob Mornan and Bill McAlpine; ladies' doubles, Marg Pawson and Marion Vanderburg d. Grace Young and Ruth Mornan.

HIGHER EDUCATION

The illibilly brought his overgrown son into a country school at the beginning of the term and said to the teacher:

"This here boy's arter larriin'. Whut's yore bill o' fare?"

The teacher said: "I teach arithmetic, algebra, geometry and trigonometry."

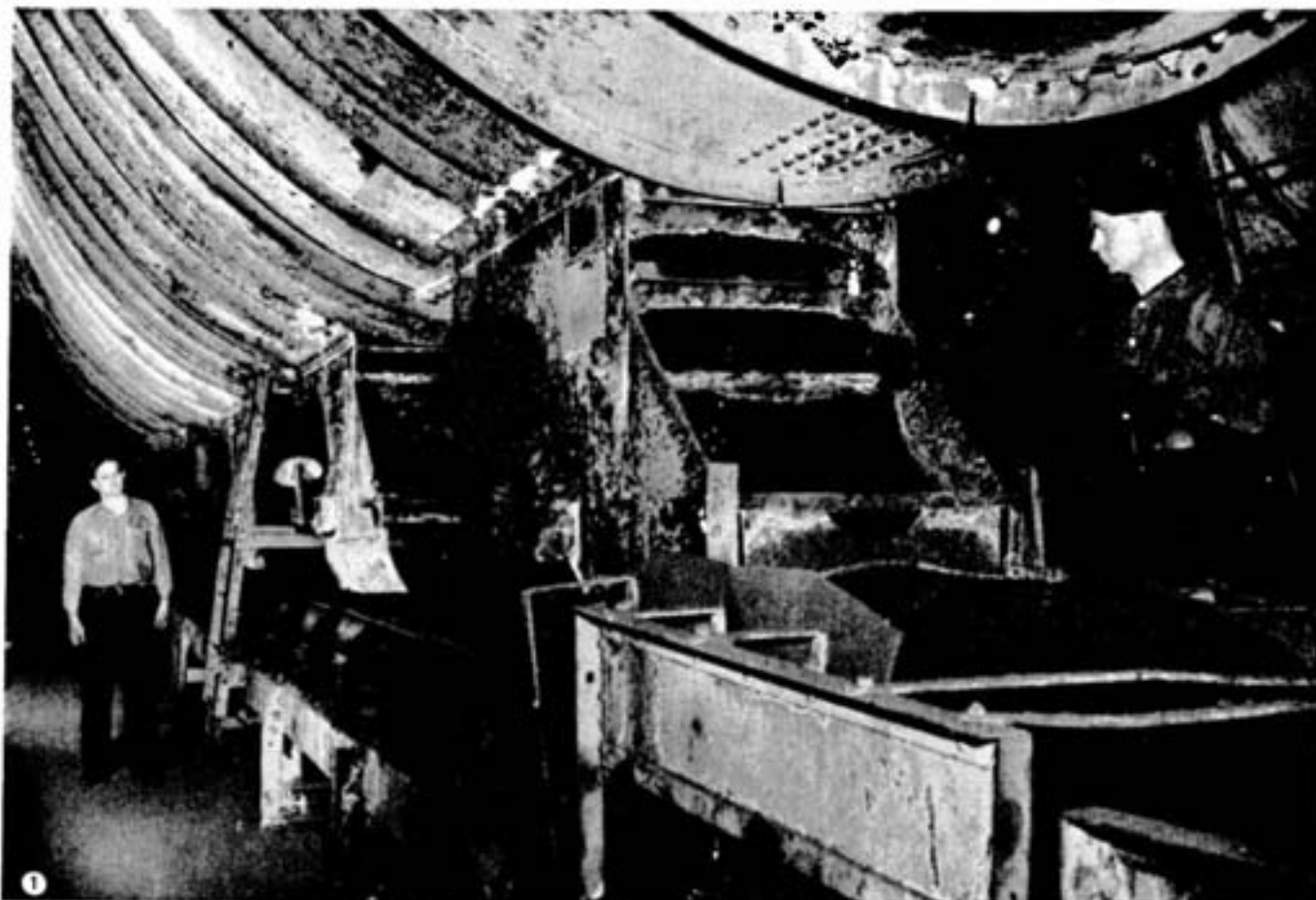
"That last one'll do," said the mountaineer. "Load him down good with trigonometry. He needs it. He's the only pore shot in the fambly."

Canada has eleven lakes exceeding 1,000 square miles in area.

INCO FAMILY ALBUM

The families on our calling list for the May issue varied in size but were uniform in quality—all top grade! (1) Mr. and Mrs. Aime Blake (Coniston) with Gerald, 9, Norman, 7, Robert, 10, and Roland, 4. (2) Mr. and Mrs. Jack Johnson (Creighton) with Beverley, 12, Fred, 9, and Linda, 4. (3) Mr. and Mrs. George Sullivan (Garson) with Monica, 10; Jim, 8; Kathleen, 12, and Jean, 3. (4) Mr. and Mrs. H. L. Moxam (Copper Cliff Smelter) with Lois, 11, and Carol, 10. (5) Mr. and Mrs. George Chew (Frood-Stobie) with Lawrence, 15, Elizabeth, 2, Dorothy, 14, Eileen, 4, Colleen, 10 and Beverley, 8. (6) Mr. and Mrs. Walter Paul (Mechanical Engineering) with Karin, 3, and David, 16 mos. (7) Mr. and Mrs. Wilf Thompson (Port Colborne) with Robert, 19, Wayne, 14, and the triplets, Kay, Kevin, and Karen, 7.





1500 Tons Daily Pulverized in The Coal Plant

There are many things to be thankful for in this life, and one of the most outstanding we have run across in quite a while is that we don't have to pay the fuel bill for the reverberatory furnaces at Copper Cliff Smelter.

Those furnaces burn an average of 1500 tons of coal every day!

Which brings us around to the interesting subject of how the smelter's coal supply is pulverized and then fed to the hungry burners to keep the old matte a-boiling.

Arriving at the plant by rail from the docks at Little Current and Midland, the coal is dumped into huge storage bins from which it is drawn through chutes to a conveyor. In No. 1 of the accompanying pictures "Corry" Tessman is busy maintaining the flow of coal from one of the 28 chutes beneath the storage bins. At the left is Angus Johnston, coal plant shift foreman, making his rounds.

No Place to Go Fishing

Riding the conveyor, the "black diamonds" pass an electro-magnet which removes any tramp iron or steel from the coal mines. One day the magnet picked up a steel case in which the boys found the fishing license of a miner down in Ohio.

From the magnet the coal passes to a cracker which breaks the chunks down to a maximum diameter of one inch, and then it hits another 170-ft. conveyor trail leading up to the 80-ton bins over the driers. In these rotating cylinders, 7½ feet in diameter and





50 feet long and heated by furnaces, the coal reaches a maximum temperature of 175 degrees F. Agitated and propelled toward the end of the drier by lift-plates, the coal emerges to be picked up by a screw-conveyor and carried to small bins over the mills.

In Photo No. 2 are seen the tops of three of the six driers. In the foreground are part of the roofs of the drier furnaces, and in the background is the "pipe organ", as the boys call it. It's a multichime in which the dust from the driers, gathered by an exhaust fan, is precipitated. Raymond Bouchard is checking the performance of the "pipe organ".

Photo No. 3 shows one of the six Raymond roll mills, driven by a 200-h.p. motor, which handles 13 tons of coal per hour and grinds it finer than flour so that complete combustion is possible when it reaches the reverberatory furnaces. Scotty McCuaig is regulating the feed from the bin to the mill.

From the mills the pulverized coal is air-swept to cyclone collectors, and then travels by conveyor to closed bins over steel weighing and shooting tanks. Drawn into the latter it is weighed, aerated at 80-lb. pressure, and blown through 5-inch diameter lines to the 80-ton storage tanks over the reverberatory furnaces.

Traffic System's Nerve Centre

Photo No. 4 shows Everesto Romagna operating the "piano" in the transport room of the coal plant. That big instrument panel is the nerve centre of the traffic system by which the pulverized coal is delivered to any of the nine reverberatory storage tanks. When an indicator shows that one of the weigh-scale tanks contains six tons, Everesto presses buttons to close the valves and seal off the tank. Then he opens the shooting valve to blow the coal to whichever reverberatory tank other indicators tell him needs refilling. The white lines indicate the pipes to the tanks. Green, amber, white and red lights flash the story of how the traffic is moving and what tanks are filled.

Operations at the coal plant are strictly governed by special safety precautions. No smoking is allowed within 50 feet of the building, which is divided into two separate units by a fireproof wall. The lights and extensions are explosion-proof, and all wiring is fire-proof. All of the 80 motors are totally enclosed. Cooling air is blown in and exhausted through ducts to the outside of the building. A high standard of cleanliness is maintained by a powerful vacuum system with pipes throughout the plant.

And that's how the coal is prepared before it is blown into the fiery hearts of the reverberatory furnaces to smelt the copper and nickel sulphides.

All this special service notwithstanding, we still wouldn't like to foot the monthly fuel bill at the smelter.

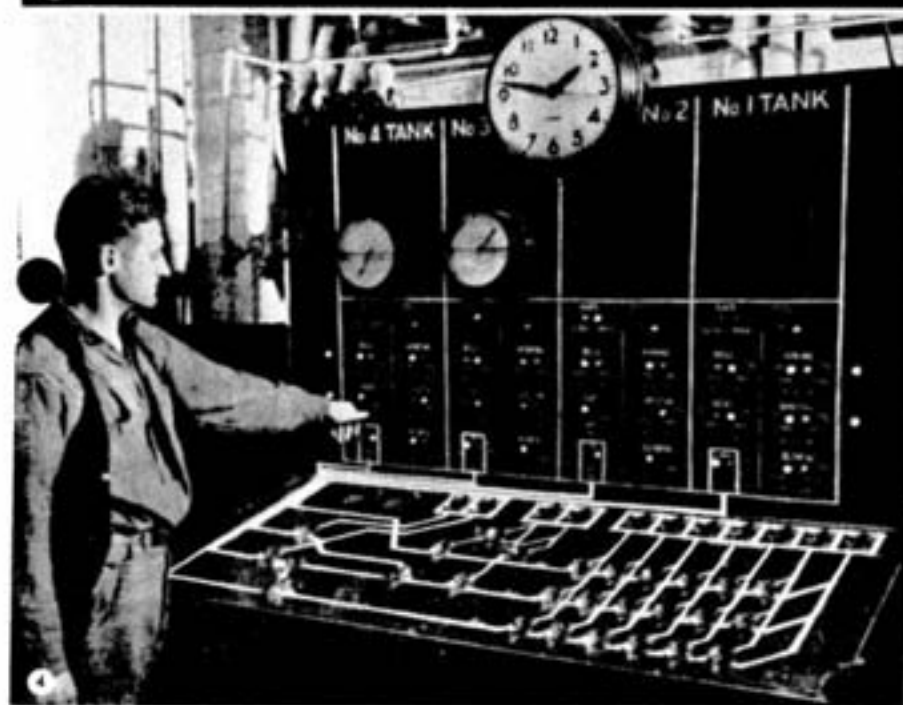
Port Colborne Hockey Champions

Port Colborne Merchants downed Gananoque Legionnaires 10-3 in a sudden-death game at Toronto April 28 to win the Ontario Hockey Association intermediate "A" championship. The Merchants thus won the best-of-five series 3-2 after an O.H.A. official ruling reversed a previous win over Gananoque.

Port Colborne now meets Rouyn, Que. Flashers for the Eastern Canada intermediate honors.

A crowd of 1,500 saw Port Colborne take a 2-1 lead in the first period and increase it to 5-2 in the second and then score five goals in the third.

Both teams played wide open hockey all the way but the Merchantmen's strong attack and stellar goalkeeping kept Gananoque from coming closer to evening the count in the late stages.





Pit Celebrates Safety Award

Celebrating completion of another 100,000 shifts without a lost-time accident, Open Pit employees with their wives and friends thoroughly enjoyed themselves at their dance in the Inco Club, Sudbury, Easter Monday night.

It was the second time the Pit had gone over the top for the 100,000 - Safe - Shifts Award, and the boys were naturally feeling pretty pleased with their record. They completed the run on March 22, and no time was lost in arranging a big get-together to mark the auspicious occasion.

The first time the Pit scored 100,000 safe shifts it came within a whisker of consecutively duplicating the performance, rolling right on to 194,000 before a dislocated elbow, sustained by an employee when he slipped off a truck, broke the run.

Almost 400 attended the snappy celebration dance, for which Art Gimpoli's orchestra played a fine bill of sweet, jive, and square.

Four couples caught by the Triangle camera during the party appear on the left: Mr. and Mrs. Harry Dennis, Mr. and Mrs. Clarke Phillips, Mr. and Mrs. Elbert Wickie (he's borrowing taxi fare), and Mr. and Mrs. Del Graham.

Valuable Door Prizes

Clarke Phillips, safety engineer, and Wally McIntosh, personnel man, conducted the draw for door prizes generously donated by Sudbury merchants. Winners were: Tony Wilson, \$25.00 cash; Ken MacDonald, rod and reel; Maurice Tessier, pressure cooker; Mrs. Stan Brown, compact; Hilton Labrick, hat; Ticket No. 630, heating pad; Mrs. Bonhomme, casserole; Tom Carter, Indian blanket; Don McGrath, pyrex plate; Raymond Valade, pen and pencil set.

In reply to dozens of enquiries as to when the next Open Pit dance will be held, Safety Engineer Phillips wishes to announce that plans are now being made for another bang-up party to be staged right after completion of another 100,000 safe shifts.



Copper Cliff Club Has Easter Dance

Many gay parties were arranged for the Easter dinner dance held at the Copper Cliff Club on April 16, and as usual the combination of fine food from the club cuisine and smooth music from Alvin Nickle's orchestra left nothing to be desired.

Among those present were the four couples whose photos appear on the right:

1. Mrs. George Morrison's camera-shy hubby pulled a tricky shift on us just before the camera clicked, but anyway those are the big broad shoulders of the well-known Concentrator general foreman.

2. Mr. and Mrs. Dick Waide, he of the Frood-Stobie mine office staff.

3. Dr. and Mrs. B. M. Wilson of Copper Cliff.

4. Mr. and Mrs. Bob McIntyre, he of the Copper Cliff Electrical Dept.

NOT HIS FAULT

"Why is it that sometimes you seem manly and sometimes effeminate?"

"Heredity, I suppose."

"Heredity?"

"Yeah, half of my ancestors were men and the other half were women."