Within The

INCO TRIANGLE

VOLUME 3 JULY, 1939 NUMBER 4

Royalty at Frood

Unforgettable day in the history of Frood Mine was Monday, June 5, when Their Majesties King George VI and Queen Elizabeth visited the underground workings and the hoisthouse. This photograph shows the King and Queen leaving the changehouse after donning coveralls and hats to go underground. At their left is Donald MacAskill, INCO's Vice-President and General Manager, who escorted His Majesty, and immediately behind them is Ralph D. Parker, General Superintendent of Mines and Smelters, who escorted the Queen.

Maddock Heads Skating Club Exec.

C. O. Maddock, of Copper Cliff, is the president of Copper Cliff Skating Club for 1940, succeeding A. E. O'Brien, of Frood Mine. Other officers for 1940 are: Bill Darrach, vice-president; Miss Edna Browne, secretary; Mrs. Irene Ramesbottom, treasurer, and Bill Armstrong, Mrs. Betty Parlee, Hughie Craig, Mrs. Elizabeth Tighe, W. G. Beaver and Mrs. A. E. O'Brien, directors.

Honorary presidents for the next skating season are Frank Taylor, Sr., and Dunc Finlayson. P. F. McDonald joins E. A. Collins as a life member of the club.

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Safety History At Copper Cliff

Last issue of Triangle announced that not only one but actually two shifts in Copper Cliff smelter were on the point of breaking the safe shift record for the plant. And, to an accompaniment of broad smiles on the parts of the men themselves and the Safety department, the unusual event proceeded to take place. On May 3, both the Somers Shift on the nickel reverbs and the Wolfe Shift in the Orford department, passed the previous plant record, the former with 66,730 safe shifts since August 1, 1937, and the latter with 66,464 since November 18, 1936.

In his office, Smelters Supt. P. F. McDonald heartily congratulated the two shift bosses and extended his compliments to their men. Frank Wolfe is on the left, Bill Somers in the centre. The reverb shift boss turned up for the official handshake in formal smelter morning attire of bowler, gloves, blackthorn and accessories to match.

Photographs were taken of the two shifts and prints were mailed to the men with the following letter, signed by G. S. Jarrett, General Safety Engineer:

"To mark the unusual event of having two shifts concurrently established a new safe shift record for the Copper Cliff smelter, we ask you to accept this photograph of yourself and the other members of your shift.

"We take this opportunity of expressing our sincere appreciation of your interest and co-operation in safety, and hope that the establishment of these records will prove an incentive to even greater safety achievements.

"Undoubtedly these records have been due in a large measure to the harmony prevailing among all members of the two shifts and their respective shift foremen, Bill Somers and Frank Wolfe, to all of whom we extend heartiest congratulations."

The record safely broken, the Wolfe Shift settled down to stretch their no-accident streak as far as possible. Just two weeks later, however, with 67,354 safe shifts under their belts, they ran into grief when a chunk of matte, placed in a wheelbarrow, overbalanced the barrow and fell on a workman's foot.

The Somers Shift at time of writing were still clicking along without misfortune, and had a total of 71,807 safe shifts to their credit. Their leader assisted in keeping the sheet clear of black marks by successfully contesting the reeveship of McKim township.

Cowper Cards Gross 68 at 'Port'

Port Colborne: Dave Cowper with a card of 86-18—68 was the major prize winner in the INCO A.A. handicap tournament played at the Port Colborne Country Club, June 3 and 4, with some 50 members of the association participating. C. R. Howard, 93-24—68 and Jack Jennings, 96-27—69 were tied as runners-up for the low net prize for 18 holes.

Jennings carried off the prize for the low net on the first nine holes and Dennis Green won the low net prize for the second nine.

Leslie Lewis' 285-yard drive gave him the long drive prize in the low handicap division. W. J. Cook with a drive of 230 yards won the long drive in the division for players with handicaps of 22 and over.

Players with net scores of 73 and under qualify for the match play in the John More trophy, the handicap championship trophy of the association.

Within The INCO TRIANGLE

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EDITORIAL OFFICE COPPER CLIFF, ONT.
Don M. Dunbar, Editor

VOL. 3, NO. 4 JULY, 1939

L'Envoi

Mr. C. Truman of INCO's Port Colborne Refinery has written a lengthy and very able poem, "The Royal Visit 1939." It concludes:

Now all is done and they are gone
Back to Old England's shore;
We'll always pray they some time may
Just visit us once more.

In this hope all INCOites will enthusiastically share, for the Royal Visit had for us a special thrill which was not the good fortune of other Canadians. The decision of Their Majesties to depart from their itinerary and go underground at Frood could without presumption be interpreted not only as a most gracious gesture to Canada's great mining industry but also as recognition of the versatile role nickel has played in making the world a happier and better place in which to live. To the people responsible for the production of nickel this was a source of deep pride and inspiration.

In the wake of the Royal Visit has been born in all Canadians a profound personal respect for this young King who is so gravely conscious of the mighty realm over which he rules and so courteously eager to come close to the heart of his people. There has been born an abiding love for the woman who is his Queen, with her thrilling smile, her charm, and her thoughtfulness. And there has been born a new sense of gratitude for the benevolent democracy which could, alone of all the world's social orders, permit these two to move happily and unafraid and so approachably among their people.

Patriotism, Please!

Some time ago Dr. David Stockdale, lecturer at King's College, Cambridge University, visited Sudbury during a trip to this country. Returning to England he gave an address before a group of scientists, and "The Metal Industry" magazine of London reports him as saying during the course of his remarks: "My supreme memory of Canada, however, is a dinner of the Sudbury Branch of the Canadian Institute of Mining and Metallurgy, where the speeches showed the belief and faith of the Canadians in Canada."

Apparently Dr. Stockdale was a bit surprised at this, just as the British press is frankly admitting its surprise at the warmth of the welcome accorded Their Majesties in Canada.

We don't blame them for being surprised. We think Canadians on the whole are inclined to be much too casual and matter-of-fact about their country, and we're afraid that the way they sing "God Save the King" and "O Canada" must sound to visitors more like a funeral dirge for the Empire rather than a vow of loyalty and faith.

From sea to sea the Royal Visit has awakened Canadian pride and patriotism to an articulate, pulsating emotion. Now let's keep it like that.

Her Majesty Says "Thank You"

The trip to Frood's underground completed, and a picture of the world's greatest nickel mine added to their memories of Canada, Their Majesties had just returned to surface when this photograph was taken in the collarhouse. The King has stepped out of the cage with Mr. MacAskill and is proceeding toward the hoisthouse. Her Majesty, also about to leave the cage, turns to express her appreciation to the cage tenders. She is about to shake hands with Danny Fitzpatrick, who stood smiling on her right. "A lovely ride. Thank you so much," were her words as she shook hands with both Fitzpatrick and Ed Staples.

HAVE A HOT TIME

The dishes on which we eat three meals a day come from furnaces or kilns whose heat rivals that of Dante's "Inferno." Such is the high temperature to which china must be subjected, that special metals, known to withstand great heat, are employed in the construction of the kilns. Pure nickel sheet is often used to roof these kilns since it does not scale and thus damage fine china placed under it.

Their Majesties Pay Frood Mine Surprise Visit

The only mine or industrial plant to be visited by Their Majesties King George VI and Queen Elizabeth during their tour of Canada and the United States was INCO'S great Frood, largest producing nickel mine in the world.

When the request of Their Majesties for a visit to Frood Mine was received by the committee in charge of the Sudbury reception, a last-minute change was smoothly made in the arrangements, and, since the day had been declared a mine holiday, a skeleton crew was organized to man operating features of outstanding interest.

When the Royal train arrived at Garson siding it was met by Mayor W. J. Laforest 1 and his daughter, Miss Marjorie Laforest, of Sudbury, and by Mayor Collins of Copper Cliff and his niece, Miss Mary Ireland, all of whom may be seen in this photograph grouped about the Royal car as Their Majesties started off for their drive through Sudbury streets to the official reception at Athletic Park. Following signing 8 of the City of Sudbury's visitors' register at the Park, as pictured here, and the presentations of the members of Sudbury and Copper Cliff councils with their wives, the Royal party proceeded to Frood mine instead of returning directly to the train as originally planned.

At the gate to the Frood Their Majesties and their party were met by Donald MacAskill, INCO's Vice-President and General 2 Manager; Mrs. MacAskill; Ralph D. Parker, General Superintendent of Mines and Smelters, and Mrs. Parker. Introductions were effected by Mayor Collins, although the welcome was purely informal.

The party then entered the mine changehouse to prepare for the trip to the underground workings, which His Majesty had particularly requested to see. Her Majesty donned a white silk slicker, goloshes, and, of course, the regulation safety hat, which she wore at a jaunty angle. Other ladies of the party wore silk slickers also, of varying colors. All the ladies carried flashlights. His Majesty and the men of the party wore coveralls, safety hats and battery lamps.

Thus equipped, the party left the changehouse and walked across the mine yard to 9 the collarhouse, passing a supply train typically loaded for underground with a wide variety of the materials which the Frood uses in such abundance. In the collarhouse the party separated into two groups for the descent underground. Their Majesties with about a dozen of the party entered the 3 first cage, one regularly used for transporting men and supplies underground. Six feet wide and 12 feet long, it can carry 60 men. The cage tender shut the steel door, the bell signal for the hoistman was given, and slowly the cage with its Royal occupants commenced the descent. Down through the solid rock it went, travelling 1,500 feet per minute.

At the 2800 level the cage slowed to a smooth stop and the party stepped out to find themselves in the concreted, whitewashed, brightly lit shaft station, which must have been reminiscent of a London underground railway depot.

While they awaited the second cageload of visitors Their Majesties expressed interest in the rotary tipple with its automatic arrangement for dumping cars of ore down to the crusher. The mining system was briefly described to them.

Intact again, the entire party then took seats on special cars and a battery locomotive drew them along the main crosscut toward the orebody. His Majesty was being escorted by Mr. MacAskill, and Her Majesty by Mr. Parker. A group joining the party to act as guides for the visit underground included Mines Superintendent H. J. Mutz; Dr. H. F. Mowat, the Company's Chief Surgeon; Superintendent F. J. Eager, A. E. O'Brien, T. Gaetz, J. Cullen, H. Smith, G. Thorpe.

Upon arrival at No. 1 drift the train was halted and the party walked in to 23 crosscut, where two miners were operating a drill. Their Majesties were keenly interested as the roaring machine sent its steel bit boring into the tough ore. And there the party stood for several minutes, listening to explanations from their guides and carefully examining the gleaming and glinting orebody from which are recovered no less than 11 different metals. At this His Majesty expressed particular interest and when, later on, he had returned to the mine office, he closely scrutinized ore samples shown him by Mr. MacAskill.

Then, having returned by their underground train to the shaft station once more, the party took the cage for surface, the clatter of the dumping ore cars at the tipple fading away into rock-bound silence as the cage whisked the party noiselessly up the vertical shaft to the collarhouse again.

Next point of interest was the hoisthouse, where the party saw first the battery of 4 compressors which supply compressed air to the lines feeding the pneumatic drills underground. They paused longer to inspect the mighty hoists, and saw the man and machine responsible for their safe journey underground. A few steps further they watched the whirling drums of the ore hoist, which can bring a 17-ton loaded skip from underground to surface at the rate of 3,000 feet per minute. A novel surprise for many of them were the spotless floor and walls, and the long row of potted plants, in the hoisthouse.

Back in the changehouse the party divested themselves of their special attire, chatted briefly with their hosts, and then, in an atmosphere of the utmost friendliness, Their Majesties bade goodbye and sped away.

Throughout the trip both the King and the Queen displayed absorbing interest in 5 every detail of their visit, constantly asking questions which showed how quickly they grasped the principles of the various operations they witnessed. They enquired carefully about safety measures and both noticed the Frood Welfare Association bulletin board and remarked with pleasure when 6 told of the welfare activities at the Company plants. Often, when they happened to be close together during the visit, they turned to comment to one another, and it was obvious that both thoroughly enjoyed this most interesting and unusual departure from their normal routine.

As for their hosts, Their Majesties left behind them an impression of instinctive charm and friendliness coupled with an amazing ability to absorb detail and atmosphere in the short time to which they must unfortunately be limited on such visits.

MIDGET MAGNET

A magnet made of an alloy containing aluminum, nickel, cobalt and iron and weighing only 1-250th of a pound, has recently proven capable of lifting a five-pound weight.

Games Rolled Top 52,000 Mark

Port Colborne: The bowling season just closed was an outstanding success, 35,501 games of 5 pins and 16,892 games of 10 pins being rolled between September and May, a fair record for four alleys.

Winners of the Club 5-Pin Trophy—"ENR Bridges," W. Booker, W. Thompson, G. Scott, J. Porter, A. Thompson, J. Franko, S. Rossi.

Winners Gallinger 10-Pin Trophy and Recreation Club Trophy: "No. 1 Bldg."—S. Bremner, R. Winn, F. Root, C. Beck, J. Carroll.

Winners of Ellsworth 5-Pin Elimination Trophy: "S R.S. Packers"—C. Beck, T. Mayne, E. Minor, D. Ford, G. Adams, P. Bertoni.

Winners of Mixed 5-Pin Tournament: Mr. and Mrs. Chas. Rogers and Mr. and Mrs. Raymond (Nipper) Wilson.

NO SPARKING

Hand tools constructed of a new alloy of 98 per cent. nickel have been developed for use in oil refineries as a precaution against danger from fire. The new alloy is not apt to spark even under heavy use, it is said.

Club Getting Tennis Courts

Tennis - minded members of INCO Employees Club were gratified to learn that four courts would be installed at the north end of the club parking lot for play this summer. Work is now well under way on the extensive preparations necessary for the courts, which are expected to be completed about the middle of July and will undoubtedly prove a great stimulus to the sport locally.

Joe Eby, of Garson, well-known INCO

JOE EBY

Club basketball and badminton star, was named president of the tennis section of the club at an organization meeting. Vern Tupling, Creighton's hockey and tennis star, was elected vice-president. There was a tie between the two in the vote for the presidency, and on the toss Eby won out. Charlie Thompson, of Frood, is secretary-treasurer. Other members of the executive who can be expected to organize a live-wire club, are: Mrs. A. H. Duncan, Harold Speers and Irving Keegan.

At least 200 members are expected to join up.


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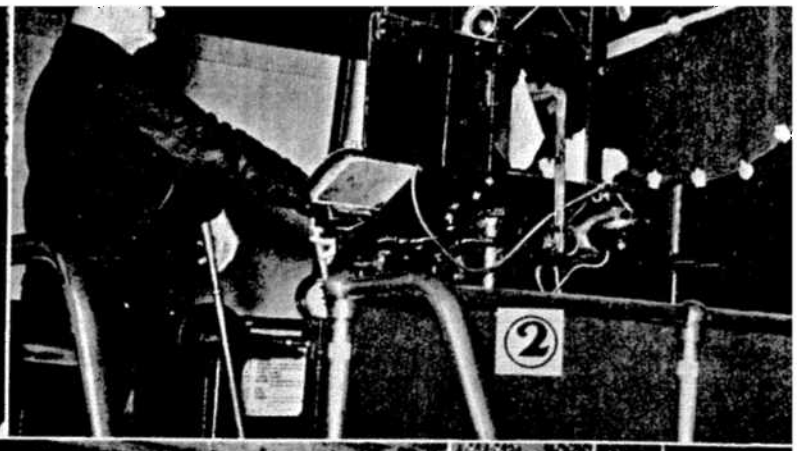
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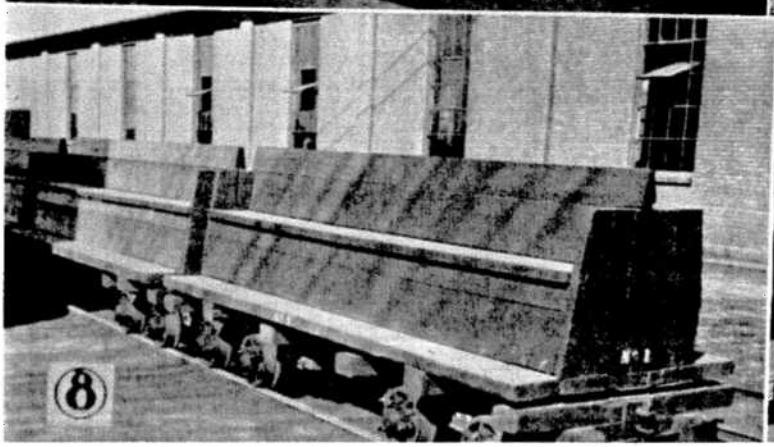
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Frood Employees Hosts To Their King and Queen

Fanned by the natural excitement of the historic event in which it was the big surprise package, the news spread with prairie-fire rapidity.

"The King and Queen are going underground at Frood!"

Thousands of tongues caught up the announcement, repeated it delightedly, launched into endless speculation through which ran a constant theme—What a wonderful tribute to Canada's mining industry in general and to the famous Frood in particular!

To none did the the surprise announcement bring a greater thrill than it did to those Frood employees who had earlier received the highly disappointing intimation that they were scheduled for work that day. After it was all over, each of them admitted frankly he had thought decidedly uncomplimentary things about the luck which brought a call to work when the King and Queen were coming to town. After all, it was once in a lifetime! But the job's the thing, and all prepared to be on deck. When the word finally spread that they were to be hosts to Royalty the dark cloud suddenly unfolded a silver lining, and no miners ever went more eagerly to their stations.

First of the quickly recruited group of Frood employees to be of service to Their 1 Majesties were Ed Staples, Danny Fitzpatrick, and Earl Passi, shown here as they were on that eventful day in the collarhouse at No. 3 Shaft awaiting the big moment. Staples and Fitzpatrick were the tenders in charge of the cage in which Their Majesties went underground, and Passi was the topman on duty who rang the bell signal for the hoistman. Those bells were ringing in Earl's ears hours after the Royal visit was over—subconsciously he kept checking them to make sure they were correct. Both Ed and Danny were deeply impressed with Their Majesties, of course, but their most exciting moment came when the party had returned to surface, the cage door had been slid up, and the visitors were about to move away. With the thoughtfulness which Canadians all along the Royal route were realizing was one of the Queen's strongest—and most charming—characteristics, Her Majesty turned and shook hands with each of the young cage-tenders, saying, "A lovely ride. Thank you so much." It had been eventful enough to ride in the same cage with Their Majesties, to hear the King's comments, to hear the Queen laughingly enquire if there were mosquitoes underground, and so on, but to shake hands with Her Majesty! Well, look at those grins the boys were wearing at the mere mention of it a full week afterward.

To the uninitiated observers of the Royal visit to Frood, a man with a terrific responsi- 2 bility was Tommy Joyce, the hoistman who operated the machine whereby the Royal cage was lowered and then returned to surface. Actually, Tommy had at his fingertips control of the most modern hoisting machinery, complete with adequate brakes and all safety devices, and he knew full well that the heavy cable on which the Royal cage was suspended would have been entirely capable of doing its job had the load on it been nine times as great as it was. So that as far as the straight mechanics of it were concerned, the Royal hoisting job was no different to him than it is any time during his regular shifts at the mine. Being a perfectly normal human being, however, and by no means impervious to a thrill despite his 43 years, of which he has spent more than 12 at the Frood, Tommy admits he got a great kick out of such intimate contact with the destiny of the British Empire.

Standout of the Royal visit, as far as Louis Relf was concerned, was Her Majesty's 3 smile. Motorman on the battery locomotive which drew the Royal train on its trip underground, he was rewarded with a gracious smile from the Queen when the party alighted at 23 crosscut, and his day was complete when he received still another after he brought the train back to the starting point near the shaft station. He is shown at the left and with him is his switchman, Leo Bourgeois, who also basked in the warmth of the Royal smile.

A pilot train preceded Their Majesties' train throughout the Royal tour, and the 4 ride on Frood's underground railway was no exception. In charge of the pilot locomotive which ran ahead were motorman Joe Morris and his switchman, George Turner, to both of whom the event was a highlight of a lifetime.

Two cageloads were necessary to transport the Royal party underground, and the 5 cagetenders in charge of the second load had their full share of the day's excitement. Here they are, pausing on the way off shift to exchange recollections of the day's details with the boys in the lamproom, George Hammond (left) and Bill Snaith, and neither of them looks exactly unhappy about the whole thing.

Upon emerging from the shaft station on 2800 the Royal party paused to watch 6 the rotary tipple dumping cars of ore to the crusher station below. Operating the tipple was Bill Gamble (right) and the crusherman and ore pass tender working below were (left to right) Irving Legacy and Desire Martin. Neither Legacy nor Martin had a chance to see the party, and Gamble, busy demonstrating his tipple, had scant opportunity to watch them. But none of the trio would have missed the occasion.

Final objective in the trip underground was 23 crosscut in No. 1 drift, to which the 7 party walked from their train. There, they found two husky drillers, D'Oyly Hadley and Bill Simpson, operating a drill, the setup being the same as shown in the photograph. In these two lads, brought together, one from Saskatchewan and the other from Quebec, to meet their King and Queen in a bewildering twist of circumstance 2,800 feet below the ground. Their Majesties displayed keen interest, enquiring about their birthplaces, their safety spats, and their work. Both Hadley and Simpson were a trifle embarrassed by the dramatic incident, and faltered a bit before they got into the swing of the conversation. The King and Queen quickly put them at ease, however, and from then on everything went smoothly. Needless to say, both lads were greatly thrilled by the experience.

These were the cars attached to the battery locomotive underground for the 8 Royal train. Covered comfortably with heavy robes they afforded Their Majesties an unhindered view of the Frood underground scene.

Two Copper Cliff girls were also among the small group whose good fortune it was 9 to be present during the Frood visit. Miss Rosemary Ovens and Miss Rita Price were given the opportunity of acting as ladies-in-waiting to the Queen at the mine. No second invitation was necessary. The girls were present to assist Her Majesty when she slipped on the silk waterproof coat and safety hat prior to going underground, and again when she prepared to leave after the visit. Co-ordinating their impressions once the excitement was over, they found themselves remembering most vividly an exceedingly gracious and charming person in whose company it was impossible to feel ill at ease. And, quite naturally, everything that the Queen said—every gesture, every second of those moments—was food for many a fascinating conversation when the two girls met their friends at INCO'S general office in Copper Cliff next day. Here, Miss Ovens describes the delightful experience to a group during the lunch hour, Miss Price sitting opposite her, second from the right in the front row. Others present: Back row, left to right, Miss Van Allan, Mrs. Pallet, Miss Lee, Miss Regan, Miss Hickey; front row, Miss Kennedy, Miss Trezise, Miss Bell and, at Miss Ovens' right, Miss Jenkins.

To all INCO employees the unexpected Frood interlude was a source of deep pride and satisfaction; to these people who were fortunate enough to be personally connected with it, June 5, 1939, will be an unforgettable day.

Gets First 'Port' Pension

At the end of this month Port Colborne will hail the first of its employees to qualify for a service pension under the INCO Retirement System.

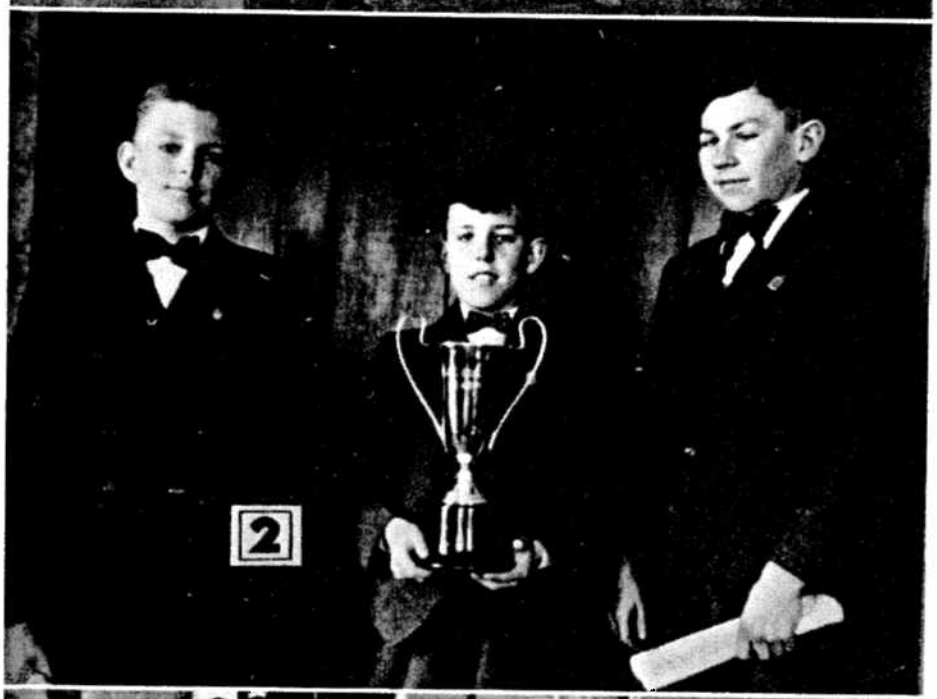
Walter Marjoram started with the Foundation Company on the construction of the Port Colborne Refinery. On the completion of the construction work, he was transferred to the Nickel Company's payroll June 7th, 1918, and has worked in the Grinding and Leaching department ever since.

He was born March 20, 1871, at Stratford,

Essex, England, married Charlotte Smyth in 1889, and came direct to Port Colborne in 1906. He made a visit to the old home in 1923. Other than a short period in 1932-3 when the plant was shut down, he has worked continuously.

He retires on service pension July 1st, having completed 20 years active service. The best wishes of his fellow employees go with Mr. and Mrs. Marjoram on his retirement. May they live many years and enjoy good health.

Arthur S. Shoffstall, general manager of INCO's rolling mills at Huntington, West Virginia, from which Coniston matte emerges as lustrous Monel Metal, on June 2 received the honorary degree of Doctor of Science from Marshall College. He already held bachelor of science and master of science degrees from Penn State College.



Highland Mary

Starry-eyed young things who are inclined to look possessively on the dapper kilted members of Copper Cliff's Highland Cadet Corps need have no fear of the Scotch lassie who appears to be so familiarily in their midst. She's not competition The Copper Cliff branch of the Canadian Legion secured the handsome poster and had it prepared to hang in the cadets' clubrooms in the federal building. Before this comely background, the officers of the corps discuss official affairs, left to right: Lieut. William Barnes, Captain Douglas Gathercole, Lieut. Allister Finlayson, Lieut. Ross Ferguson and Lieut. James Glade. The corps' 21st annual inspection, in Stanley Stadium, June 2, was a particularly brilliant affair. The inspecting officers were Lieut.-Col. S. A. Lee and Major H. P. E. Phillips, of Toronto, before whom the smart young Highlanders went through their manoeuvres in a manner reflecting great credit on themselves and on their instructor, Lieut. Roy C. Barnes. A banquet followed in Memorial Community Hall, at which Lieut.-Col. Lee spoke briefly.

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Musical Sons

In the Niagara District Musical Festival on March 28 and 29, Port Colborne Refinery was proudly represented by the three sons of J. G. Little. Entered by Steele St. School in the event for public school pupils' vocal trios, they bested nine other outstanding entries to take first place. Tom, Dick and Walter are the lads' names, and they hold the handsome silver trophy presented to them by Raymond Caughlin for their achievement.

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Costly Wager

It will probably be a long time before Sammy Dyce, Copper Cliff concentrator, makes a wager with Fred Stevens, one of his shift mates. When Goodyears tackled Montreal Royals in Allan Cup hockey, Sammy was hot on the Toronto team and said so. The resulting bet (Fred was a Royals fans) stipulated that the loser would either put up a neat chunk of cash or else walk on all fours from the front of the changehouse to the slag-dump tracks, a matter of about 50 yards, every day after shift for one week with the handle of his pal's lunch pail firmly between his teeth. Photo shows Sammy paying off, which he did very manfully and faithfully despite the big crowd which gathered daily for the performance and laughed with cruel mirth at the unfortunate gambler in his misery.

25,000 TONS OF COINS

If all the pure nickel coins which have been put in circulation throughout the world could be collected and put on a huge scale, there would be about 4,500,000,000 coins, weighing approximately 25,000 tons, according to recent numismatical estimates. There are 33 countries which use pure nickel for coins numbering 103 different types or designs in all, and totalling 89 denominations. In 1938, five new nickel coins were issued. Newest of these were the Belgian five-franc, one-franc and 50 centimes pieces

NEED TINY BULBS

Electric light bulbs, so small that half a dozen or more of them could be held in the hollow of a pen nib, are incorporated in the delicate and complex instruments of modern surgery. These instruments, which are inserted into the human body, are made of monel, this metal being entirely rust-proof and in no way capable of harming the human system.

Garrison Finish

1 Frood Mine Engineers team of 12 bridge players won the coveted E. A. Collins Rose Bowl at the conclusion of the third night of play in the fifth semi-annual INCO bridge tournament at the Memorial Community Hall, Copper Cliff.

The team started the last night's play in fifth place and were not considered a threat for honors. Captained by W. G. Jarratt, they came through with 36,020 points to give themselves an aggregate score for the three nights of 94,370 points.

Members of the winning team, which brings the Rose Bowl to Frood for the first time, are: Mrs. Ed Fitzjohn, Mrs. P. Evans, R. T. McAndrew, J. McAndrew, Mr. Jarrett A. Spy, S. Kaitting, J. Hunter, H. King, R A. Hughes, A. J. Northwood and K. Barlow.

The winners of the Memorial Community Hall silver trays for the highest couple aggregate for the three nights' play were Mel Dundass and W. Cameron, of Creighton, with a score of 19,810 points. Runners-up were Mrs. Ed Fitzjohn and Mrs. P. Evans, Frood Engineers, with a score of 18,900 points.

Scorekeepers were Leslie Ade and Ken McTavish, who kept tab of the 14 teams and 42 tables, biggest turnout in the history of the popular event.

The aggregate scores for the other teams were as follows: Research Lab., 87,210; Ramblers, 86,750; Office, 86,220; Copper Cliff Ladies, 85,160; Frood, 84,820; Refinery No. 1, 83,980; Smelter, 82,640; Creighton, 81,240; Rebels, 78,540; Refinery No. 2, 78,530; Outlaws, 71,590; Bulldozers, 69,190, and The Crowd, 67,430.

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Garson Farewell

2 When Alex Pollock, Garson shift boss, was retired on Company pension after a record dating back to September 20, 1900, it was the occasion for a get-together of friends and old-timers in the Garson schoolhouse. During the evening a presentation was made to Mr. and Mrs. Pollock on behalf of their wide circle of Garson friends. Mines Superintendent H. J. Mutz made the presentation and extended his heartiest congratulations to Mr. Pollock on his splendid service record. Mr. and Mrs. Pollock received a beautiful chest of silver, a handsome ash stand, and an engraved cigaret case. Photo shows them at home with these gifts.

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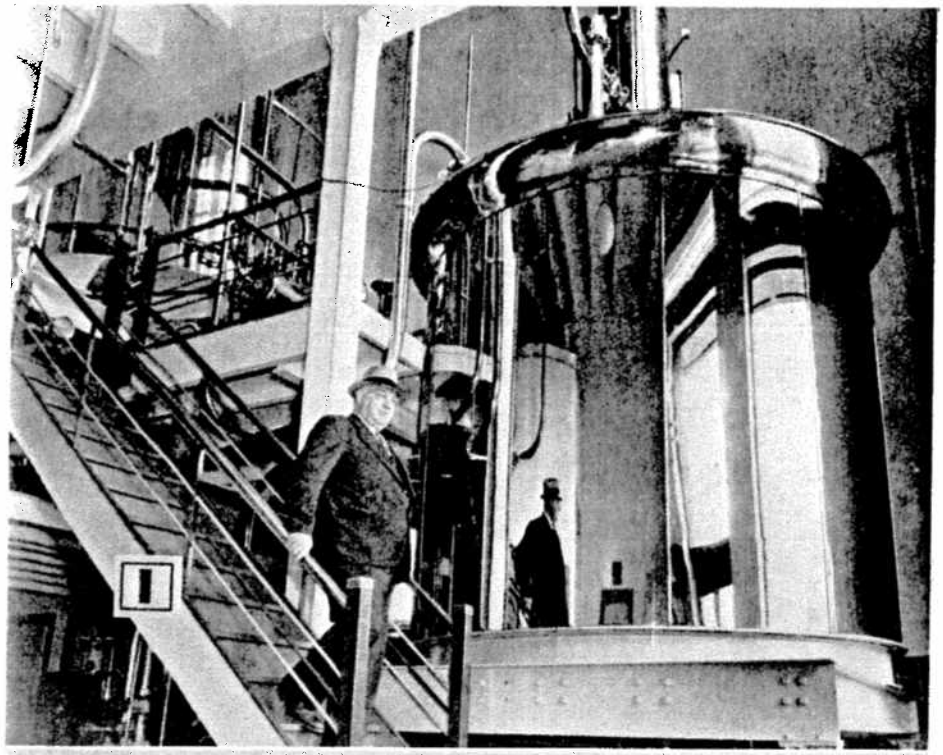
Receive Trophy

3 A total of 14 teams competed in the ladies' bowling league at INCO Employees Club the past season, as compared with 10 in the previous schedule. Mrs. Bill Hamel's quintet emerged triumphant, although their final margin over the runners-up captained by Mrs. Kupchank was only 24 pins and the issue was in doubt up to the last frame. At a tea party some days later, presentation of the Employees Club trophy was made to the victors by George Earnett, and bowling maestro, Pete Bertrand, handed over the substantial "kitty" built up by the league for its champions. Photo shows the winning lineup and the captain of the losers, left to right, back row: Mrs. Hamel, Mrs. Wilson, Mrs. Kupchank; front row: Mrs Faulkner, Mrs. Labrick and Mrs. Storms.

BOVINES ARE VAIN

Meat packers have always had difficulty in getting cattle to enter what is known as the "knock-pen" where they are killed. A Canadian packing company has found that by placing a sheet of mirror-finish monel just in back of the opening to this pen, the cattle see their reflections and, thinking the pen already occupied, do not hesitate at the entrance.



Dream Realized

In 1920 John Clemens chanced to attend a Dairymen's Convention in Detroit, dropped in at the usual exhibit of equipment, and saw gleaming Monel coolers and pasteurizers stealing the show from older types. "Why not in breweries too?" he asked himself, and forthwith came home to Sudbury and commenced dreaming of a model plant at Sudbury Brewing & Malting Company, where he was brewmaster. Not all dreaming was it either, for every now and then he'd make tests to see if Monel cuttings would corrode in beer or affect its taste. Which they did not. "Sold" on nickel's future, he became a shareholder in the industry which was to build Sudbury into a metropolis of world recognition, and when the time came recently for futher expanding Sudbury Brewery, he had no trouble convincing his associates that nickel and nickel alloys were the logical installation. No INCO salesman could be more enthusiastic about nickel, more eloquent in describing its advantages, or prouder of the slick transformation it has effected in his brewery. Photo shows him in one section of the new plant. Brewers from all over Canada and the United States are keenly interested in the Sudbury Brewing Company's development, and several have already travelled to the nickel city to see it. John Clemens is by no means loathe to show it to them. An exceptionally impressive installation, it will no doubt be inspected by hundreds from the district when nickel workers are invited in to see an example of what their product can accomplish for the improvement of another industry.

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Coniston on Top

Although it's still a bit early to start handing out the league championship, it looks like Nickel Belt senior baseball honors this season will go either to Coniston or Frood, with Coniston at present installed as favorites. Copper Cliff may develop into a bigger threat than they offer at this writing, but Creighton, last year's winners, will have to step a lot faster than they are at present if they expect to keep the Monel tankard. Coniston have a world of fight and a very well balanced club. Their 2-1 triumph over Frood June 23 after 11 innings was official notice that it will take a lot of pushing to shove them off the top of the hickory heap. (Toe Blake said thanks for that diamond by punching in the winning run). Photo shows a bit of action in a Coniston-Frood game. Wilson, Coniston's jack-of-all-positions, is parked comfortably at the home plate with the ball in his mitt waiting to put the tag on Harvey, Frood shortstop, who had wandered too far from third base.

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Seek Cup Laurels

By the time this issue of Triangle is circulated, results of the annual Dominion Cup playdowns will be known, and the fate of Garson's 1939 hopes in this event will have been decided. One goal down to Falconbridge in the final series as we go to press, the great Garson club was confident it could turn the tables. It took three games to decide whether Frood or Garson would meet Falconbridge, and the third match went 30 minutes overtime before the Gunners slammed the winning pigskin into the tapestry. Photo shows a tense moment in the second match, with Freddie Armstrong of Garson covering his goalie as the ball dropped down in the goal mouth from a well-placed Frood corner kick.

A monument recently erected in San Francisco's Chinatown to the Chinese patriot, Dr. Sun Yat-Sen, is constructed entirely of nickel chromium stainless steel.

Habitual Champ

Twice in a row Bill Stevens has had the honor of captaining the Frood team to the inter-plant bowling championship at INCO Employees Club. Winners in their own mine league, the Stevens lineup plunged into a three-way playoff with the ORCO and Copper Cliff champs for the club's inter-plant laurels. When all the pins were counted, Frood was 34 pins ahead of ORCO, with Copper Cliff trailing by about 400. Here Stevens poses at the scoreboard, with his players (left to right): Ned Leore, Jim Kilby, Charlie Mills and Jim Henry. Two of these, Leore and Mills, were with him in his championship success last year.

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Men Too Good

A lot of good-natured banter between the ladies and the men's teams throughout the season at the Employees Club finally developed into a full-fledged challenge, as everybody hoped it would. And the big match was eventually played, with an all-star team from the ladies' league facing a similar constellation from among the stags. A certain cautious welfare secretary was known to look upon the whole thing with considerable alarm, fearing that the gentle sex might rout the males and make life unbearable for many a day. His fears were well founded but they didn't fully materialize, and his sigh of relief swept through the club corridors like a young gale. The men took the decision by about 300 pins, but it was a well-fought and thoroughly enjoyed engagement. The boys kept a close eye on the score, as was evident when the camera caught Charlie Mills asking for an independent audit after looking at some of Pete Bertrand's figures. One of the leading players on the ladies' team was Mrs. Kay Steadman, who is seen about to get a strike away.

Tennis Expects An Active Season

Port Colborne: Although hampered by limited court space, the Inco tennis club is enjoying an active season. As most of the top ranking players are playing for the new town club, the committee in charge decided against entering a team in the Niagara district league. The committee is composed of W. A. Hicks, Jr., chairman; A. C. Saville and W. F. Gordon.

To ascertain the standings for ladder challenges, an informal singles tournament, in which players from the town club were invited to play, started off on May 20th. All players were put into one "A" group. Anyone eliminated in the first or second round dropped down into a "B" grouping. A defeat in the first round of the "B" group permitted the player to enter a "C" group.

The "A" group has been completed with B. Young of the town club defeating C. Steed of Incos, in straight sets, 7-5, 6-2, 6-2. The "B" group is in the semi-final round while the "C" group has just started.

In the only match played against an out-of-town team, Incos defeated Welland 3-2, on Inco courts. Incos players were Herb Smith, Bob Rivers and Les Heard, singles, and R. A. "Nipper" Wilson and Jack Wegerich, Bob Cochrane and Bill McDonald, doubles.

1000-YEAR HOUSE

Building a house to last a thousand years is an ambitious undertaking for even the editor of such a magazine as the Scientific American. This, however, is what an editor of that magazine has done. The house, a cabin type, is built of stone. Its top is sealed with a roof of monel.


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Quarter Century Club Membership Swells to 185

Traditions of long and faithful service, happy associations, and co-operation between employer and employee continue to grow within INCO with each passing year. At a thoroughly enjoyable function in Memorial Community Hall at Copper Cliff, June 16, another 39 men were welcomed into the ranks of the Quarter Century Club,—men who have completed 25 years with the Company.

Following a dinner at which 36 of the 39 new members were present, presentations were made by Donald MacAskill, Vice-President and General Manager of the Company, of the coveted Quarter Century Club buttons.

E. A. Collins, secretary of the Quarter Century Club, read the minutes of the last meeting, and announced that there were now 185 members in the Copper Cliff branch, besides 19 at Port Colborne, and branches in New York and London. The average service of the Copper Cliff members eligible for the club at the end of December 31, 1937, was 30.28 years he said. At Port Colborne for the same period the average service was 33.05 years.

Prior to the presentations, Mr. MacAskill expressed the Company's appreciation of the fine records of these veterans, many of whom were old associates of his in Copper Cliff smelter. He bespoke their co-operation in encouraging the younger men within the Company to equip themselves for leadership and responsibility, strongly discounting the theory often advanced by young men that in these days there seems little opportunity for advancement. "The opportunities are greater now than ever," he said, "and I hope you will do your best to impress that on our young fellows."

Then each new member received his button, and there was a great deal of fun as old associations were renewed.

The new club members, as they posed for a group photo, were left to right, back row: J. M. Lawson, Copper Cliff, who came from Aberdeen, Scotland, started as a laborer in the old blast furnace building, is now a shift boss on the reverbs; D. Hutchison, Copper Cliff, from Scotland, started as a fitter, is now an engineer in the concentrator sub-station, often wins prizes for his flowers and home grounds; John Dingwall, Creighton, from Scotland, started in Copper Cliff time office, is now chief storekeeper at Creighton; Dr. W. C. Campbell, Copper Cliff, from Belleville, formerly stationed at Frood, is now at Copper Cliff Hospital; Bert Millen, Copper Cliff, from England, started in the old cobalt plant, is now at the smelter; Edison Knight, Copper Cliff, was at Copper Cliff prior to 1912 but went west to Calgary for a period before returning to the Cliff. is now a patternmaker; Stuart McKenzie, Frood, from Nova Scotia, now chief electrician at the Frood; J. H. Butler, Frood, started at Creighton as a fitter under John Simons, is now fitter foreman at Frood; G. Kuryk, Copper Cliff, formerly with C.P.R., is now a concentrator fitter; L. J. Thomas, Copper Cliff, from England, started in mechanical department, is now fire inspector.

Second row: H. M. Stephenson, Copper Cliff, was with Mond Nickel Company, is now in Copper Cliff time office; John Powlesland, Copper Cliff, from England, started as smelter laborer, is now skimmer on nickel converters; R. H. Keast, Copper Cliff, from Michigan, worked his way through college in north iron range where his father worked before him, started in mines survey department and is now mines engineer; Sidney Smith, Copper Cliff, from England, started as smelter laborer, is now shift boss on the reverbs; J. F. Bell, Garson, originally signed up with the company, June 20, 1912; John Brodie, Garson, signed up March 5, 1912; William Trezise, Copper Cliff, first joined the Company in 1905, then left for Cobalt for some time but returned, started as a machinist, is now machine shop foreman; Tom Heale, Copper Cliff, from England, is now mechanical fitter; Dennis O'Brien, Copper Cliff, first started with the Company in September, 1910; Pietro Fiorotto, came from Italy, is now in Copper Cliff smelter.

Third row: Oddo Signoretti, Copper Cliff, first signed up with Company in September of 1912; W. F. Yeo, Copper Cliff, from England, has served as smelter laborer, in the sample house, chauffeur, automobile fitter foreman, is now an electric locomotive engineer, wears out about one set of piano keys a year; C. T. Cummings, Copper Cliff, from Nova Scotia, started as locomotive fitter and when the renowned Herb Barlow left, Charlie took his position as locomotive fitter foreman; R. A. Elliott, Copper Cliff, was formerly with Mond Nickel Company, started as brakeman and is now Supt. of Transportation, gets a yen for a new car every year; D. Finlayson, Copper Cliff, from Scotland, started as smelter laborer and is now Assist. Supt. of Smelters; Arthur Lye, Garson, first with Company April 21, 1913, is now hoistman; P. Johnson, Coniston, first with Company June 23, 1912, is now surface foreman; Diego Coppo, Coniston, enrolled June 13; C. B. Deeks, Coniston, from England, enrolled November 18, 1913, is now electrical foreman; Antton Toivala, Garson, started May, 1913, is now shift boss.

Front row: G. Sanchioni, Copper Cliff, from Italy, enrolled April 1912; M. T. Lee, Copper Cliff, pride of Smiths Falls, started as scale clerk, is now big hub in wheel of transportation, bad news to lake trout and pickerel; Dr. H. W. Feldhans, born in Copper Cliff where his father worked for the Company, worked his own way through college with summer jobs in the shops, is now at Copper Cliff Hospital; Jas. Kidd, Copper Cliff, from Victoria Mines, is now coal plant foreman; H. L. Walker, Frood, enrolled October 1913, is now a hoistman; M. Sirkka, Copper Cliff, enrolled June 2, 1909, from Finland, is now mechanical fitter.

Absent: C. M. Johnston, Copper Cliff, enrolled March 22, 1912; A. A. S. Prentice, High Falls, enrolled December 12, 1912; H. K. Clark, Nairn Falls, enrolled April 4, 1912.

Other photographs in the layout show various members of the Club as they received their buttons: In No. 2 Dr. Campbell is receiving Mr. MacAskill's congratulations; No 3 shows Pietro Fiorotto shaking hands with Mr. Collins; No 4 is Arthur Lye; No 5 is Percy Johnson; No.'s 6 and 7 are banquet table groups; in No. Dunc Finlayson is being made a Quarter Century Club member, as is John Powlesland in No. 9.

The presentations concluded, the gathering adjourned to the auditorium where motion pictures of the various INCO plants in Canada were shown, vocal selections were given by Louis Cassio and his sister, Mrs. Bruno Taus, and boxing bouts were run off.

HIGH-SPEED PRESS

Running at 415 to 500 cylinder RPM, a new press made by Goss Printing Press Company can print, fold and deliver 50,000 to 60,000 32-page papers an hour. Gears, highly important in such presses, are made of a high test cast iron containing 1½ per cent. nickel and 0.40 per cent. chromium, to enable them to withstand the stresses involved.

Year's Totals Prove Impressive

Port Colborne: The Recreation Club in its first full year of operation exceeded even the most optimistic member's expectations in its varied activities, badminton, bowling billiards, volley ball, boxing, wrestling, gym classes and various types of entertainments combining to keep the club a mecca of recreation for the members.

During the season just closed the club presented entertainments of various types that were attended by 12,125 members, a record we hope to surpass next fall and winter. Five thousand, eight hundred and ninety-seven children attended 316 gym classes during the past season and are all waiting for Jack Taylor's call to resume next fall.

Fine Program Featured 24th

Sandwiched into many days of rainy weather were the hours of brilliant sunshine which favored Copper Cliff Athletic Association's annual Victoria Day celebration, and the big event went off with a bang. Record crowds thronged Nickel Park to enjoy the highly varied program of amusement which had been arranged.

Standout entries in the morning's parade were the floats of ORCO Security Association and Racicot & Darrach, of Copper Cliff. The midget league baseball exhibition was a crowd-pleaser, as was the opening senior Nickel Belt fixture, in which Copper Cliff bested Coniston 8-4.

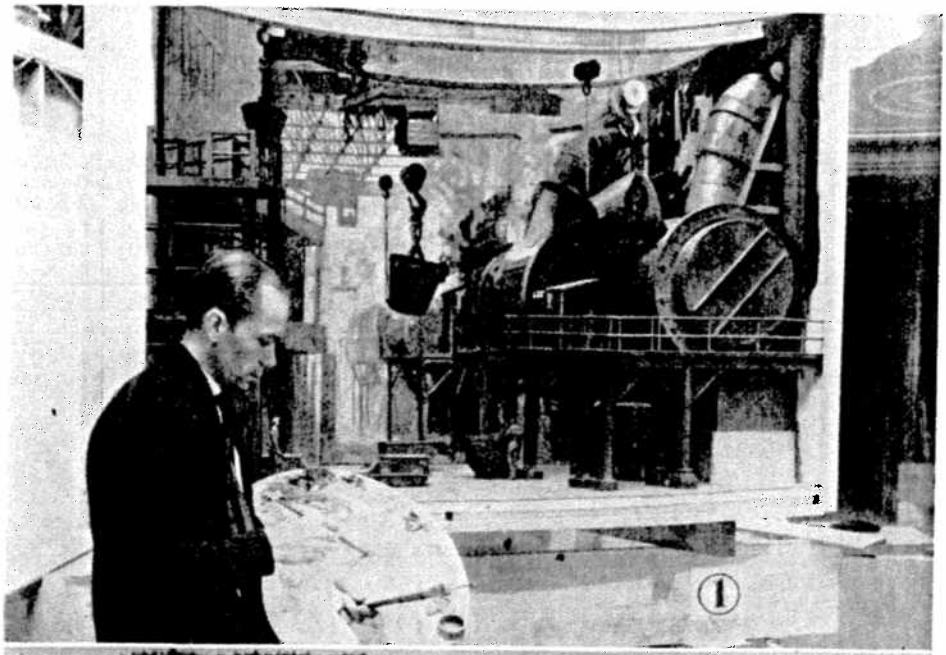
Irving Keegan and Mike Boluk teamed up to win the doubles title, and Keegan took the singles crown in a playoff with George Paterson, Copper Cliff Reverb. The newly-formed horseshoe pitching unit of Copper Cliff Athletic Association ran the contests.

There were 13 entries in doubles play and 21 flingers went after the singles honors. A highlight of a singles semi-final between Keegan and Bob Seawright, of Creighton, was the way Keegan doubled up. Cartwright, needing only one to win, tossed a ringer. Keegan answered with a pair of shoes circling the post.

Frood's mighty tug-o-war team successfully defended its championship laurels against a very determined bid from Creighton, the latter forcing the Close men to give everything in a saw-off pull. Races for kiddies of all ages and sizes were run off and there was a high school track and field meet in which the competition was keen. Frood Tigers won the softball game. In the boxing program, an evening open-air feature, Johnny Teal, of Copper Cliff, scored a fifth-round knockout over Scotty Martin in the feature bout of a snappy card. A glorious fireworks display and a dance in the Community Hall wound up the program, of which a highly diversified midway was an all-day attraction.

NICKEL GETS "BRAKES"

The leading maker of coaster brakes for bicycles reports that 7,000 brakes per day, or two million brakes a year, are being turned out as against an average of 400,000 per year, the normal production rate until recently. Improvements in the development of the mechanism combine positive braking power, improved strength, low upkeep cost and freedom from sources of trouble, these advantages being assured largely by the use of special alloy steels. Vital parts of the new brakes are made of nickel-chromium steel, case hardened to resist wear.



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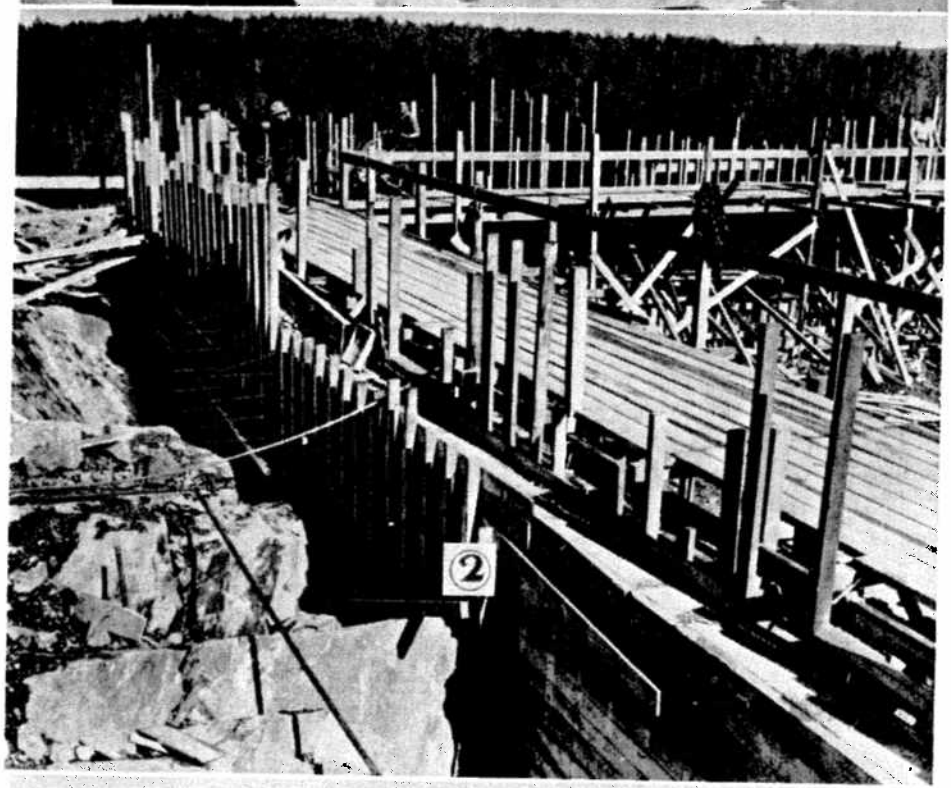

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Miniature Smelter

The converter aisle at Copper Cliff smelter, admittedly one of the most dramatic industrial scenes on the continent, was recreated in miniature for the show of the Department of Mines, Ottawa, in the Canadian pavilion at the New York World's Fair. Photo shows the partially completed scene, with some of the tiny carved models of the huge furnaces and ladles painted and the background partially sketched.

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Garson Activity

Work is well under way on the preparation of site and the construction of buildings in connection with the new shaft and mining plant at Garson Mine. The present mining plant and shaft are located in a position which interferes with a complete mining of the orebody. Garson Mine has been in operation since 1908.

The new shaft will be located a distance of 1,500 feet east of the present shaft. In this position the new plant will not be endangered by an possible subsidence due to future mining. The shaft will have five compartments as follows: Two ore hoisting compartments 5 feet by 5 feet 6 inches in section; a man and supply hoisting compartment 5 feet 6 inches by 10 feet 2 inches in section; a counterweight cage compartment 5 feet 6 inches by 4 feet 8 inches in section, and a pipe and ladderway compartment 5 feet 6 inches by 4 feet 8 inches in section.

The new shaft will be extended to a depth of 2,215 feet. Ore will be hoisted from a loading pocket located at the 2,075 elevation. Ore hoisting capacity of the shaft will be 200 tons per hour. In addition to opening up extensions of the orebodies on the present mining levels, three new levels will be developed below the 1400 level.

The headframe will be of steel construction. The collarhouse and ore bins will be constructed as an integral part of the headframe. An ore sorting plant and storage bins will be provided.

The ore hoist and cage hoist as well as the air compressors and transforming equipment will be housed in the powerhouse building, foundation for which is being constructed as shown in the photo. That the building will have substantial support is obvious from the solid rock out of which the excavation had to be drilled and blasted.

Ground is also being prepared for the office and changehouse building, which will provide office space for the various departments serving the mine and adequate changehouse facilities for all employees. Other buildings will include a heating plant and the necessary shops.

Nickel steel skips and cages will be used throughout. Nickel steel will also be used in mine car bodies as well as car axles on account of its resistance to corrosion. Considerable reduction in weight with the attendant increase in pay load will be effected by the use of nickel steel in the skips and cages as well as in the mine cars.

Operator Got Cryptic Reverge

To a pair of delighted newlyweds went first prize in Copper Cliff Athletic Association's Victoria Day prize draw. Mrs. Vera Leclair, of Coniston, was the lucky holder of the winning ticket, and received a boat and motor. The Sudbury Star's account of the results of the draw carried the following line at the end of the story:

"KSMssrohma etaoin shrdlu shrdco."

This may have been a makeup man's error, and it may have been an expression of the linotype operator's feelings at not winning the first prize himself.

Five-Pin Champs

In a centre where bowling is as highly organized or as keenly contested as it is at Port Colborne Refinery, championships are neither easily won nor lightly held. Which accounts for the looks of pardonable pride on the faces of these five-pin champs, left to right: John Tronko, William Booker, Jas. Porter, W. Thompson, George Scott, H. Thompson, S. Rossi. They may not hold that trophy forever, but they'll put up one awfully determined struggle before they give it up.

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Favorite Son

Nothing short of a diamond ring could express Coniston's regard for its "Toe" Blake and his achievements as a great hockey player, and so it was a diamond ring they gave him. Supt. E. T. Austin, of Coniston smelter, is seen presenting the sparkler to "Toe," and Mrs. Blake is there too with the lovely bouquet of roses she received from young Morris Dube, "Toe's" nephew. The presentation was in the nature of a welcome-home to the peer of the National Hockey League's left wingers, who won the Hart trophy for the most valuable player in the N.H.L. last winter. Many Nickel Belt hockey fans are already talking up a "Toe" Blake night at Montreal next winter when their favorite is back in his harness with Canadiens.

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Bowling Titlists

For the third time in the history of its athletic achievements Ontario Refinery Athletic Association has a championship bowling team. The classy tankhouse crew, June 8, emerged from the tough City Bowling League schedule with the Sudbury title well and truly grasped. Clothiers were the marksmen they eliminated in the final battle of the alleys. Here are the members of the team, back row, left to right: W. Toleck, F. Cooper, T. Moore, W. Koth; front row: H. Thornton, T. Gennatta, C. Atkinson and F. Jennings. Leading scorer of the league was Atkinson.

Seven Teams In Plant Softball

Port Colborne: Softball is here again and the plant league composed of seven teams is just nicely started. Competition is keen and last year's champs will be hard pressed to retain their laurels.

Ed. Beauchamp is the genial guardian angel of softball for 1939 and the following teams make up his league: E.N R. "B" Shift, Calciners "A" Shift, Anodes "B" Shift, Electricians, Painters, Mechanics and Electros.

Two teams, "Incos" and "Monels," represent the plant in the Town League and great things are expected of them in the league race.

OUTDOOR VOLLEY BALL

Port Colborne: A move is under way to organize an outdoor Volley Ball League for the summer, and it is hoped to have a league of six teams operating by July 1st.

An "Anglers" section is also being mooted for the club in the near future. Some of the more enthusiastic "Isaak Waltons" are keenly interested and hope to organize for bait and fly casting instruction. What fish stories are in the making now!

ELIMINATES "PHOOEY"

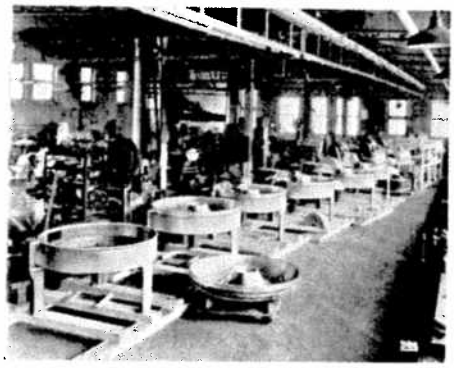
Nickel is used commercially as a catalyst for eliminating the taste and odor of cod liver oil and castor oil.

Nickel Cast Iron

AT THE WORLD'S FAIR

How things are made, what manufacturing processes our common, everyday products go through before we get them, is an important part of the many displays at the New York World's Fair. Milk, cigars, glass, pianos, rubber tires, china, coffee and frankfurters are only a few of the products which are manufactured, processed or packaged before the visitor's eyes.

In a number of these displays, as in actual industrial processing, the nickel alloys play an important role. For example, one of the Swift & Company exhibits shows the actual nickel cast iron processing equipment used in the manufacture of frankfurters. The



display duplicates the process and equipment that are used in the company's various plants.

The meat is first shown being ground and cut in special meat grinders and sausage cutters. Untouched by human hands at any stage of the process, the sausage meat finally travels to the stuffing machines where it comes out as frankfurters.

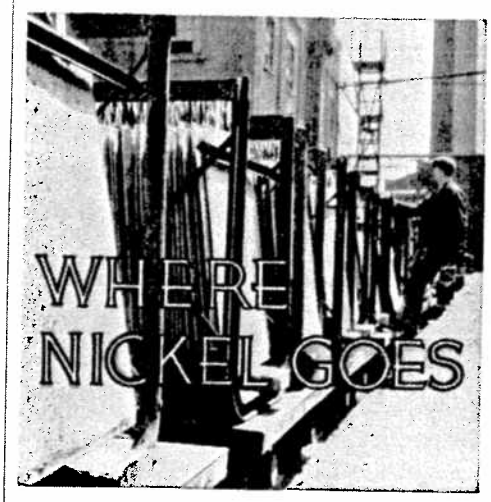
In machinery used for these processes, there are many requirements for the working parts. Good strength and hardness are important. Ready machinability, both to effect production economies and to assure smooth surfaces, is necessary and resistance to the corrosive attack of food acids is also a factor. For these requirements, nickel cast iron has been proven satisfactory over a long period of time. The alloy is used in frankfurter manufacture since it provides the sound, dense structure necessary to prevent small particles of meat from becoming embedded in the surface, and corrosion resistance to reduce pitting. The photograph above shows a batch of meat cutters assembled before being shipped to the Swift & Company exhibit at the World's Fair.

Lead Lookout In Golf Exchange

Port Colborne: Port Colborne Country Club will have an 18-point lead when they go to Lookout Point on August 19 for the return match in the MacAskill trophy competitions. At the Port Colborne club on Saturday the local golfers scored a total of 39 points to Lookout Point's 21. Twenty golfers from each club participated.

W. J. Freeman, president of the Port Colborne club, and G. L. Gordon, of Lookout Point, shared the individual honors for the day. Playing against each other they turned in cards of 75 each, the low gross scores for the day. They divided the points of their match in addition to having the same gross scores.

Milton Dunsmore, of Port Colborne, had the long drive of the day, about 275 yards. His drive from number four tee was to the left of the green near the evergreen trees beside number five tee.

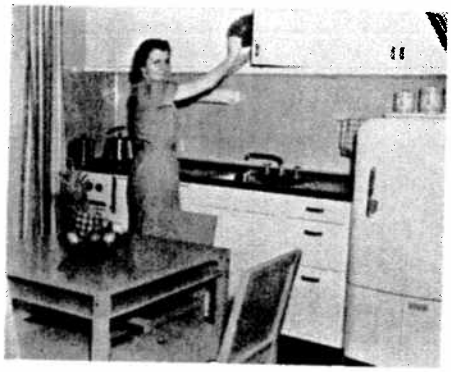


Monel

AT THE WORLD'S FAIR

About fifty million people are expected to visit the New York World's Fair this summer, but only two persons actually live there. These two are Mr. and Mrs. J. F. Moulton, of Leroy, New York, who came to live in and run the Electrified Farm, a feature of the electric utility industry.

From their living quarters on the second floor of the attractive white and green farmhouse, the Moultons look out over an orchard, a pasture and gardens, cattle, horses and chickens. A living room with a kitchenette wing for the preparation of meals and for dining, two gaily decorated bedrooms, a



bathroom and a long, shady upstairs porch comprise their home. The photograph above shows Mrs. Moulton at work in the kitchenette. With its gleaming monel sink and monel topped electric range and dishwasher, the equipment is as good looking as it is efficient.

All this the World's Fair visitor will not see, however, for surely the residents must be allowed some privacy. The first floor of the farmhouse, with its model living and dining room, its kitchen with a monel topped range and workshop, is open to visitors. This and the modern barn and silo, the dairy, the poultry unit, the community packing house, the greenhouse and other sections show some of the many things that electricity can do to make farm life more comfortable and more profitable for the modern farmer and his family.

Among the new equipment shown for the first time are electric freezing cabinets which make it possible for the farmer to freeze and hold indefinitely on his own farm, fruits, vegetables, meats and poultry.

STRENGTH IS TRIPLED

Steel chains seven-eighths of an inch in diameter when alloyed with nickel and molybdenum are three times as strong as unalloyed chains of the same size.

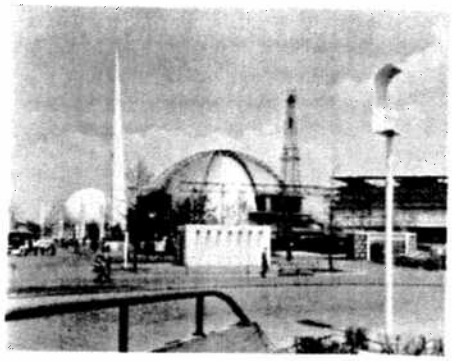
Nickel Steel

AT THE WORLD'S FAIR

When an entire building is turned inside out, that is news, even at a great world's fair. Such a structure is the U.S. Steel building which is making news at the New York World's Fair.

Designed to show the inner construction of a large building, the structure consists of an "inner dome" measuring sixty-five feet high and one hundred and thirty-two feet in diameter, suspended on the inside chord of the main supporting steel arches which are left entirely exposed to view on the outside (see photograph below).

The gleaming dome is composed of more than fifty sections of "18-8" chromium nickel stainless steel, literally turned inside out



and covering an area of 28,000 square feet. The exposed steel structural members are painted blue and red, emphasizing the permanent beauty of the stainless steel surface. Within the dome are two floors of dramatic exhibits which tell the story of the manufacture of steel and portray its uses in industry today and in the World of Tomorrow. A mural in the entrance foyer of the "inside out" building is done in stainless steel also.

It would be difficult to describe all the other uses to which the nickel-containing steels have been put at the Fair. Another of the most outstanding ones is the gigantic stainless steel statue which tops the pavilion of the Soviet Republics. Measuring 79 feet in height, the sculpture is the figure of a worker striding the central pylon of the huge building.

The most prominent of the structures in the entire Fair are, of course, the Perisphere and the Trylon, the enormous globe and the triangular spire that form the central theme. These can be seen in the background of the photograph below. Here again we find nickel steel used in a rather spectacular way. A long, circular ramp leads visitors into the interior of the Perisphere where "Democracity," an imaginary city of the future, is shown. The entire under-structure of the ramp is faced with chromium-nickel stainless steel sheet in such a way that it reflects the supporting columns in a decorative and effective manner.

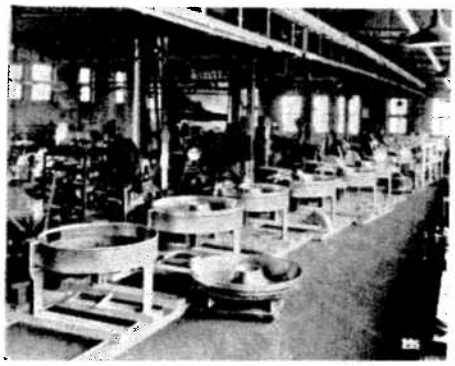
LONGEST FISH STORY

Entered for a prize as the longest fish story is the report of the International Fisheries Commission which claims that a halibut which has been caught and tagged was again caught 3,582 days later. The Commission has been carrying on for the past twelve years a study of North Pacific fish as a joint project of the United States and Canada. Each year it sends out an expedition which catches fish, tags them and then frees them. The tag is a narrow strip of monel which is attached to the cheek of the fish by a special tool. Each tag is keyed to show where and when the fish was originally caught, and a metal had to be selected, which would not corrode in salt water and thus become undecipherable.

Nickel Cast Iron
AT THE WORLD'S FAIR

How things are made, what manufacturing processes our common, everyday products go through before we get them, is an important part of the many displays at the New York World's Fair. Milk, cigars, glass, pianos, rubber tires, china, coffee and frankfurters are only a few of the products which are manufactured, processed or packaged before the visitor's eyes.

In a number of these displays, as in actual industrial processing, the nickel alloys play an important role. For example, one of the Swift & Company exhibits shows the actual nickel cast iron processing equipment used in the manufacture of frankfurters. The



display duplicates the process and equipment that are used in the company's various plants.

The meat is first shown being ground and cut in special meat grinders and sausage cutters. Untouched by human hands at any stage of the process, the sausage meat finally travels to the stuffing machines where it comes out as frankfurters.

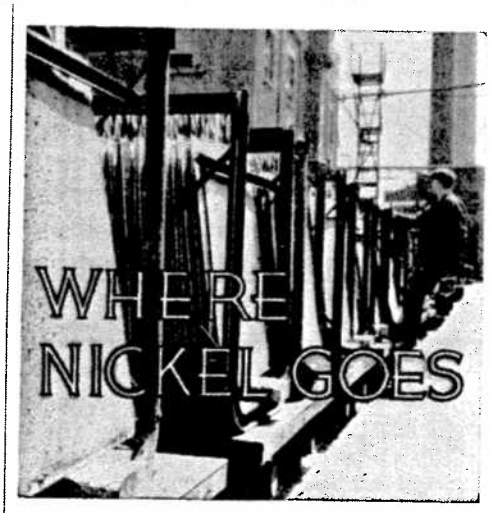
In machinery used for these processes, there are many requirements for the working parts. Good strength and hardness are important. Ready machinability, both to effect production economies and to assure smooth surfaces, is necessary and resistance to the corrosive attack of food acids is also a factor. For these requirements, nickel cast iron has been proven satisfactory over a long period of time. The alloy is used in frankfurter manufacture since it provides the sound, dense structure necessary to prevent small particles of meat from becoming embedded in the surface, and corrosion resistance to reduce pitting. The photograph above shows a batch of meat cutters assembled before being shipped to the Swift & Company exhibit at the World's Fair.

Lead Lookout In Golf Exchange

Port Colborne: Port Colborne Country Club will have an 18-point lead when they go to Lookout Point on August 19 for the return match in the MacAskill trophy competitions. At the Port Colborne club on Saturday the local golfers scored a total of 39 points to Lookout Point's 21. Twenty golfers from each club participated.

W. J. Freeman, president of the Port Colborne club, and G. L. Gordon, of Lookout Point, shared the individual honors for the day. Playing against each other they turned in cards of 75 each, the low gross scores for the day. They divided the points of their match in addition to having the same gross scores.

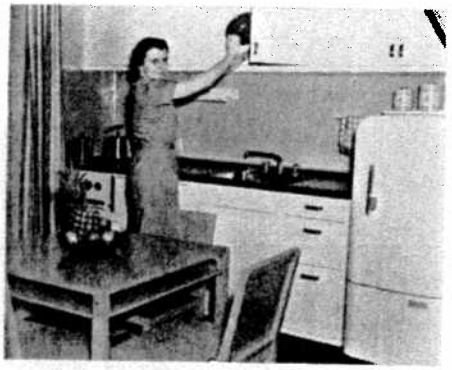
Milton Dunsmore, of Port Colborne, had the long drive of the day, about 275 yards. His drive from number four tee was to the left of the green near the evergreen trees beside number five tee.



Monel
AT THE WORLD'S FAIR

About fifty million people are expected to visit the New York World's Fair this summer, but only two persons actually live there. These two are Mr. and Mrs. J. F. Moulton, of Leroy, New York, who came to live in and run the Electrified Farm, a feature of the electric utility industry.

From their living quarters on the second floor of the attractive white and green farmhouse, the Moultons look out over an orchard, a pasture and gardens, cattle, horses and chickens. A living room with a kitchenette wing for the preparation of meals and for dining, two gaily decorated bedrooms, a



bathroom and a long, shady upstairs porch comprise their home. The photograph above shows Mrs. Moulton at work in the kitchenette. With its gleaming monel sink and monel topped electric range and dishwasher, the equipment is as good looking as it is efficient.

All this the World's Fair visitor will not see, however, for surely the residents must be allowed some privacy. The first floor of the farmhouse, with its model living and dining room, its kitchen with a monel topped range and workshop, is open to visitors. This and the modern barn and silo, the dairy, the poultry unit, the community packing house, the greenhouse and other sections show some of the many things that electricity can do to make farm life more comfortable and more profitable for the modern farmer and his family.

Among the new equipment shown for the first time are electric freezing cabinets which make it possible for the farmer to freeze and hold indefinitely on his own farm, fruits, vegetables, meats and poultry.

STRENGTH IS TRIPLED

Steel chains seven-eighths of an inch in diameter when alloyed with nickel and molybdenum are three times as strong as unalloyed chains of the same size.

Nickel Steel
AT THE WORLD'S FAIR

When an entire building is turned inside out, that is news, even at a great world's fair. Such a structure is the U.S. Steel building which is making news at the New York World's Fair.

Designed to show the inner construction of a large building, the structure consists of an "inner dome" measuring sixty-five feet high and one hundred and thirty-two feet in diameter, suspended on the inside chord of the main supporting steel arches which are left entirely exposed to view on the outside (see photograph below).

The gleaming dome is composed of more than fifty sections of "18-8" chromium nickel stainless steel, literally turned inside out

and covering an area of 28,000 square feet. The exposed steel structural members are painted blue and red, emphasizing the permanent beauty of the stainless steel surface. Within the dome are two floors of dramatic exhibits which tell the story of the manufacture of steel and portray its uses in industry today and in the World of Tomorrow. A mural in the entrance foyer of the "inside out" building is done in stainless steel also.

It would be difficult to describe all the other uses to which the nickel-containing steels have been put at the Fair. Another of the most outstanding ones is the gigantic stainless steel statue which tops the pavilion of the Soviet Republics. Measuring 79 feet in height, the sculpture is the figure of a worker striding the central pylon of the huge building.

The most prominent of the structures in the entire Fair are, of course, the Perisphere and the Trylon, the enormous globe and the triangular spire that form the central theme. These can be seen in the background of the photograph below. Here again we find nickel steel used in a rather spectacular way. A long, circular ramp leads visitors into the interior of the Perisphere where "Democracity," an imaginary city of the future, is shown. The entire under-structure of the ramp is faced with chromium-nickel stainless steel sheet in such a way that it reflects the supporting columns in a decorative and effective manner.

LONGEST FISH STORY

Entered for a prize as the longest fish story is the report of the International Fisheries Commission which claims that a halibut which has been caught and tagged was again caught 3,582 days later. The Commission has been carrying on for the past twelve years a study of North Pacific fish as a joint project of the United States and Canada. Each year it sends out an expedition which catches fish, tags them and then frees them. The tag is a narrow strip of monel which is attached to the cheek of the fish by a special tool. Each tag is keyed to show where and when the fish was originally caught, and a metal had to be selected, which would not corrode in salt water and thus become undecipherable.